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SOUTHERN COLLEGE

OF SEVENTH-DAY ADVENTISTS

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SOUTHERN COLLEGE OF SEVENTH-DAY ADVENTISTS

1996-1997 CATALOG

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In publishing this catalog, every reasonable effort has been made to be factually accurate. The publisher assumes no responsibility for editorial, clerical, or printing errors. The information presented is, at the time of printing, an accurate description of course offerings, policies, and requirements of Southern College. The provisions of this catalog, however, are not to be regarded as an irrevocable contract between the college and the student. The college reserves the right to change any provision or requirement at any time, without prior notice.

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Something to keep in mind —

Although this CATALOG is not a textbook, you will refer to it often during your college career. It describes the academic program you select and the requirements you must fulfill to graduate. Before you enroll at Southern or register for any succeeding semester, you should satisfy yourself that you are familiar with this catalog.

Two important parts of your academic life are General Education and your field of concentration. You will find it especially valuable to read carefully the sections of the catalog that explain these programs.

Every attempt has been made to prepare this catalog so everyone may understand it, but some of the information may still be confusing to you. Also, because changes may occur in your program requirements, you may encounter contradictions between this catalog and advice that you later receive. Talk to someone about the sections of this catalog that are not clear.

The first person to talk to is your academic adviser. You may also find help from the chair of your department. It may be necessary to visit with the Director and Assistant Director of Records and Advisement. The Vice President for Academic Administration is also available to assist you. If you need explanations about financial questions, talk with the Director or Assistant Director of Student Finance.

Remember that you are the one who selects your program of study and it is your responsibility to know the graduation requirements and meet them.

Do not lose this catalog. It is your "college manual."



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CONTENTS

| | |
|--|--------|
| Academic Calendar | 4 |
| This Is Southern College | 6 |
| Admissions | 10 |
| Student Life and Services | 14 |
| Academic Enrichment Services | 19 |
| Academic Policies | 22 |
| General Degree Requirements | 22 |
| General Education Course Requirements | 25-29 |
| Departments of Instruction | 47-219 |
| Allied Health | 47 |
| Art | 60 |
| Behavioral Science | 64 |
| Biology | 72 |
| Business Administration | 81 |
| Chemistry | 94 |
| Computer Science and Technology | 99 |
| Education and Psychology | 107 |
| Engineering Studies | 129 |
| English and Speech | 131 |
| Health, Physical Education, and Recreation | 138 |
| History | 146 |
| Industrial Technology | 152 |
| Journalism and Communication | 158 |
| Mathematics | 168 |
| Modern Languages | 173 |
| Music | 177 |
| Nondepartmental Courses | 187 |
| Nursing | 189 |
| Physics | 199 |
| Religion | 205 |
| Interdepartmental Programs | 218 |
| Medical Science | 218 |
| General Studies | 218 |
| Non-Degree Preprofessional Programs | 220 |
| Anesthesia | 220 |
| Dentistry | 220 |
| Law | 221 |
| Medicine | 221 |
| Optometry | 223 |
| Osteopathic Medicine | 223 |
| Pharmacy | 224 |
| Podiatric Medicine | 224 |
| Veterinary Medicine | 225 |
| Software Technology Center | 226 |
| Financial Policies | 227 |
| Student Costs | 227 |
| Special Fees and Charges | 228 |
| Housing | 229 |
| Method of Payment | 231 |
| Financial Aid | 240 |
| Index | 262 |

ACADEMIC CALENDAR

1996-97 School Year

The Southern College summer term consists of four 4-week sessions. Students in attendance during the 1995-96 school year may register at any time during the week immediately preceding the session.

1st Summer Session

| | |
|--------|--|
| May 7 | Registration |
| May 7 | Classes Begin |
| May 8 | Late Registration Fee |
| May 9 | Last Day to Add a Course/Fee for Class Change |
| May 17 | Last Day to Drop and Automatically Receive a "W" |
| May 24 | All Withdrawals After This Date Receive "F" |
| May 31 | Classes End |

2nd Summer Session

| | |
|---------|--|
| June 3 | Registration |
| June 3 | Classes Begin |
| June 5 | Late Registration Fee |
| June 6 | Last Day to Add a Course/Fee for Class Change |
| June 14 | Last Day to Drop and Automatically Receive a "W" |
| June 21 | All Withdrawals After This Date Receive "F" |
| June 28 | Classes End |

3rd Summer Session

| | |
|---------|--|
| July 1 | Registration |
| July 1 | Classes Begin |
| July 2 | Late Registration Fee |
| July 3 | Last Day to Add a Course/Fee for Class Change |
| July 4 | Independence Day Observed |
| July 12 | Last Day to Drop and Automatically Receive a "W" |
| July 19 | All Withdrawals After This Date Receive "F" |
| July 26 | Classes End |

4th Summer Session

| | |
|-----------|--|
| July 28 | Registration |
| July 29 | Classes Begin |
| July 30 | Late Registration Fee |
| July 31 | Last Day to Add a Course/Fee for Class Change |
| August 9 | Last Day to Drop and Automatically Receive a "W" |
| August 16 | All Withdrawals After This Date Receive "F" |
| Aug 19-23 | ACT Exam |
| August 23 | Classes End |

1st Semester

| | |
|------------|----------------------|
| Aug 16-19 | Faculty Colloquium |
| August 26 | ACT Exam |
| Aug 25, 26 | Freshman Orientation |

1st Semester, cont.

| | |
|---------------|--|
| Aug 26, 27 | Registration by Appointment |
| August 28 | Classes Begin |
| August 28 | Late Registration Fee |
| September 3 | Fee for Class Change |
| September 10 | Last Day to Add Course |
| October 18 | Mid-term Ends |
| October 18-20 | Mid-semester Break |
| October 25-27 | Alumni Homecoming |
| October 31 | Last Day to Drop and Automatically Receive a "W" |
| Nov 4-15 | Pre-Registration/Advisement |
| Nov 27-Dec 1 | Thanksgiving Vacation |
| December 6 | All Withdrawals After This Date Receive "F" |
| Dec 16-19 | Semester Exams |
| Dec 20-Jan 5 | Christmas Vacation |

2nd Semester

| | |
|----------------|--|
| January 5, 6 | Registration for Pre-registered Students |
| January 6 | Registration by Appointment |
| January 7 | Classes Begin |
| January 7 | Late Registration Fee |
| January 13 | Fee for Class Change |
| January 20 | Last Day to Add Course |
| January 21 | Senior Class Organization |
| February 28 | Mid-term Ends |
| Feb 28-Mar 9 | Spring Break |
| March 20 | Last Day to Drop and Automatically Receive a "W" |
| Mar 24-Apr 4 | Pre-Registration/Advisement |
| April 6, 7 | College Days |
| April 7 | Senior Deadline for Correspondence/Incompletes |
| April 18 | All Withdrawals After This Date Receive "F" |
| April 28-May 1 | Semester Exams |
| May 4 | Commencement/Semester Ends |

1st Summer Session, 1997

| | |
|--------|--------------------------------|
| May 6 | Registration and Classes Begin |
| May 30 | Classes End |

2nd Summer Session, 1997

| | |
|---------|--------------------------------|
| June 2 | Registration and Classes Begin |
| June 27 | Classes End |

3rd Summer Session, 1997

| | |
|---------|--------------------------------|
| June 30 | Registration and Classes Begin |
| July 25 | Classes End |

4th Summer Session, 1997

| | |
|-----------|---------------|
| July 27 | Registration |
| July 28 | Classes Begin |
| August 22 | Classes End |

THIS IS SOUTHERN COLLEGE

Southern College of Seventh-day Adventists is a co-educational institution established by the Seventh-day Adventist Church* primarily to serve its constituents in the southeastern part of the United States. It is principally concerned with baccalaureate instruction but offers numerous associate degrees, a small number of one-year certificates, and a limited graduate program.

MISSION STATEMENT

Southern College of Seventh-day Adventists provides students, faculty, and staff with an environment for balanced development of the intellectual, spiritual, physical, and social dimensions of life in harmony with biblical principles. In a context of liberal arts and professional curricula, our campus community emphasizes academic scholarship, vocational preparation, cultural understanding, and a relationship with Jesus Christ leading to a life of service.

EDUCATIONAL PHILOSOPHY AND OBJECTIVES

The purpose of higher education in the Seventh-day Adventist Church is rooted in a comprehensive theological understanding of humanity in the world. The following is a summary of this understanding:

- (1) Seventh-day Adventists believe that God is the Creator and Sustainer of the earth and its inhabitants. He is the Source of all knowledge.
- (2) Created in the image of God for the purpose of communion with Him, mankind possessed harmonious physical, mental, spiritual, and social attributes.
- (3) As a result of sin, these attributes were seriously marred, but God in His love provided a redemptive plan for the restoration of His image in humanity, thus preparing individuals for eternal personal fellowship with God.

In the context of this theological understanding, education is viewed as an essential element of redemption, including an awareness of each individual's relationship to God and a commitment of service to mankind. Education, consequently, must focus on developing the whole person. Southern College attempts to provide a spiritual, intellectual, social, and physical environment which encourages this development through the following specific objectives.

Spiritual

The spiritual goal of Southern College is to enable students to grasp Christian beliefs and values as understood by the Seventh-day Adventist Church. Along with three hours of mandatory religion course work for each

*This college is operated by the Southern Union Conference of Seventh-day Adventists, which is comprised of the churches in the states of Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, and Tennessee.

year of attendance, students have religious convocations and various opportunities for Christian fellowship and service to help them better internalize these ideals.

Intellectual

The intellectual goal of Southern College is to help students confront the ideas and values which underlie civilization. Course requirements and general education options aim at broadening and deepening the students' outlook. An honors program challenges the most capable students, while academic awards recognize a range of scholarly achievements.

Occupational

The occupational goal of Southern College is to prepare students for service in a practical world. Although that does not always mean specific career orientation, the major and minor course work offers useful competencies as well as skills related to specific vocations.

Social

Regarding the relationship of individuals to society, the goal of Southern College is to encourage students to attain the social maturity necessary for successful family and community living. Southern College provides activities and courses aimed at developing healthy interpersonal relations, communication skills, and decision-making abilities. This goal includes a commitment by the college to involve its students and staff in service activities which benefit both its regional constituency and local community.

Physical

Regarding personal health, the goal of Southern College is to educate students to be active in promoting their own physical well-being. Southern College is smoke-, alcohol-, and drug-free by policy, and the cafeteria offers a meatless diet. Health-oriented courses and activities combine to encourage a balance of exercise, rest, diet, study, work, and recreation.

HISTORY

In 1892 the educational venture that developed into Southern College had its beginning in the small village of Graysville, Tennessee. The school became known as Graysville Academy. In 1896 the name was changed to Southern Industrial School and five years later to Southern Training School.

In 1916, because of limited acreage available for further expansion of plant facilities, the school was moved to the Thatcher farm in Hamilton County, Tennessee. The name "Collegedale" was given to the anticipated community. At its new location, the school opened as Southern Junior College and continued as such until 1944 when it achieved senior college status and the name was changed to Southern Missionary College. In 1982 the name was changed to Southern College of Seventh-day Adventists.

SETTING

Southern College's one-thousand-acre Collegedale campus is nestled in a valley eighteen miles east of Chattanooga. The quietness and beauty of the surroundings are in keeping with the college's educational philosophy.

ACCREDITATION AND MEMBERSHIPS

Southern College of Seventh-day Adventists is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097, Telephone number 404-679-4501) to award one-year certificates, associate degrees, and baccalaureate degrees. It is also accredited by the Accrediting Association of Seventh-day Adventist Schools, Colleges, and Universities.

Departments of the college are also accredited by various organizations. The Associate of Science and Bachelor of Science degree programs in nursing, including Public Health Nursing, are accredited by the National League for Nursing as surveyed by the Collegiate Board of Review. The Department of Nursing is an agency member of the Department of Baccalaureate and Higher Degree Programs of the Division of Nursing Education of the National League for Nursing. It is also accredited by the Tennessee Board of Nursing and is recognized by the Florida State Board of Nursing.

The college is approved by the Tennessee State Board of Education for the preparation of secondary and elementary teachers. Southern College is also a member of the Association of American Colleges, the American Council on Education, the Tennessee College Association, the American Association of Colleges for Teacher Education, and the National Association for Schools of Music.

ACADEMIC PROGRAM

Southern College offers 39 baccalaureate degree majors, 32 minors, 18 associate degree majors, and 4 one-year certificates. Additional preprofessional and terminal curricula are available to students seeking admission to professional schools. (See "Degrees and Curricula," pages 31 and 32). Ten departments offer secondary teaching certification. Southern College is an extension campus for La Sierra University, which offers the M.Ed. degree, and Andrews University, which offers the M.S.N. degree.

STUDENTS

Sixty percent of the students of Southern College come from the eight states comprising the Southern Union Conference of Seventh-day Adventists. However, most of the additional states and 47 foreign countries are also represented. There are a few more women than men.

Former Southern College students are now serving in the ministerial, teaching, medical, and other services of the Seventh-day Adventist Church at home and abroad. Others are engaged in advanced study, business pursuits, government service, research activities, private and institutional medical services, and the teaching professions on all levels.

FACILITIES

The following buildings house the academic and other activities of the college:

- Brock Hall—Art, Business Administration, English/Speech, History, Journalism/Communication, Modern Languages, Instructional Media, and WSMC FM90.5
- Daniells Hall—Computer Science/Technology, Mathematics, Physics
- Hackman Hall—Biology and Chemistry
- Mazie Herin Hall—Nursing
- William Iles Physical Education Center—Physical Education, Swimming Pool
- Ledford Hall—Industrial Technology
- McKee Library
- Miller Hall—Religion Center
- Student Center—Computer Center, Cafeteria, Counseling and Testing Center, Campus Ministries, student activity rooms, K.R.'s Place
- Summerour Hall—Behavioral Science, Education and Psychology
- J. Mabel Wood Hall—Music
- Lynn Wood Hall—Heritage Museum, Conference Rooms
- Wright Hall—Administration Building

Other facilities on or near campus that may serve student needs:

- Collegedale Academy—secondary laboratory school
- Collegedale Seventh-day Adventist Church
- Charles Fleming Plaza—shopping center with businesses serving the college and community. Includes:
 - Adventist Book Center
 - Campus Kitchen—fast foods
 - Campus Shop—student bookstore and gift shop
 - United States Post Office
 - Village Market with grocery, deli, bakery
- Conference Center—guest rooms available for a fee (1-800-277-7273)
- Health Service—located at the east end of the Conference Center
- Recreational Area—tennis courts, track, playing fields
- Spanish-American Seventh-day Adventist Church
- Arthur W. Spalding Elementary School—laboratory school
- Student Apartments
- Student Park
- Talge Hall—men's residence hall
- Thatcher Hall—women's residence hall

Various auxiliary and vocational buildings house college industries and service departments.

ADMISSIONS

Southern College welcomes applications from students who seek a college career that unites spirituality and academic integrity and who commit themselves to an educational program designed according to Christian principles as taught by the Seventh-day Adventist Church. The college does not discriminate on the basis of age, gender, race, color, ethnic or national origin, religion, or handicap.

PREPARATION FOR FRESHMAN STANDING¹

Applicants for regular admission as freshmen must submit two satisfactory recommendations to the Admissions Office and satisfy one of the following three conditions at the time of enrollment:

Regular Acceptance

- A. Graduate from an approved secondary school, including Home Study International, with a grade point average (GPA) of at least 2.00 (on a 4.00 scale) in major subjects,² have a minimum composite score of 18 on the Enhanced American College Test (ACT) or a minimum of 710 on the Scholastic Aptitude Test (SAT) or 840 on the Recentered SAT I.
- B. Pass the General Education Development (GED) test with all sections not less than 45 or total score of not less than 225, have a composite score of 18 on the Enhanced ACT or a minimum of 710 on the Scholastic Aptitude Test (SAT) or 840 on the Recentered SAT I, and be eighteen years old by June 1 (prior to admission). Each applicant must have an official transcript of his or her grades and credits sent to the Admissions Office from the high school most recently attended.
- C. Complete a minimum of eighteen secondary school units, fourteen of which must be in major subjects², with a minimum GPA of 3.00 in the major subjects, and have a minimum composite score of 18 on the Enhanced ACT or a minimum of 710 on the Scholastic Aptitude Test (SAT) or 840 on the Recentered SAT I.

Southern College must have received a final official high school transcript or GED scores and a transcript from the high school last attended from each new student before he or she will be admitted to registration.

Acceptance on Academic Probation

- A. If either the high school GPA or ACT/SAT composite score is below the minimum requirements as stated above, the student may be accepted on academic probationary status.
- B. Students accepted on academic probation may take no more than 12 semester hours during the first semester.

¹Those planning to enter professions such as nursing or music education should consult departmental admission requirements.

²Bible, English, mathematics, natural science, social science, and foreign language.

If both the high school GPA and the Enhanced ACT composite score or SAT score are below the minimum requirements (2.00 and 18 or 710 respectively), it will be necessary for the student to take a minimum of six semester hours (in solid courses) and maintain a college GPA of 2.25 before being accepted at Southern College. These six hours may be taken at Southern College during the summer (last session excluded) or at another accredited college.

Subjects Required for Admission

Applicants to freshman standing must have the following subjects in their secondary program:

1. Three units of English, excluding journalism and speech.
2. Two units of mathematics, including algebra.
3. Two units of science or an ACT score of 14 in science reasoning. A college class in biology, chemistry, or physics must be taken in addition to general education science requirements if this condition is not met.
4. Two units of social studies. If one of these two units is not World History, HIST 174, 175, 364, 365, 374, 375, 386 or 389 must be taken as part of the general education requirements.
5. Two units in a foreign language are required for a B.A. degree. If deficient, one year of a foreign language at the college level will be required.
6. Computer competency is strongly recommended.

ADMISSION TO THE NURSING DEPARTMENT

Students applying to nursing courses as freshmen or as transfer students should refer to the Nursing section of the CATALOG for admission requirements.

ADMISSION OF TRANSFER STUDENTS

Students wishing to transfer to Southern College from another accredited college or university must follow the same application procedure as other students. Transfer credits may be applied toward the requirements for a degree when the student has satisfactorily completed a minimum of twelve semester hours in residence. Credit by examination taken at other colleges will be accepted according to Southern College standards (see "College Credit by Examination" in the Academic Policies section of the CATALOG on page 42). A maximum of 72 semester hours may be accepted from a college where the highest degree offered is the associate degree. Background deficiencies revealed by transcripts and entrance examinations will be given individual attention.

Credit will be granted for courses taken at institutions which are not regionally accredited only after the student has completed at least 16 semester hours at Southern College with a 2.00 or better average. Only those courses that are comparable to Southern College courses and for which the student has earned a "C" grade or better will be accepted.

A student who has been dismissed from another institution because of poor scholarship or citizenship, or who is on probation from that institution, is not generally eligible for admission until he can qualify for readmission to the institution from which he has been dismissed. **Transfer**

students must submit both their college and high school official transcripts to the Admissions Office before being admitted to registration. Those who do not have credit for first semester College Composition and three semester hours of college level mathematics will be required to take the Enhanced ACT (American College Test) prior to registration at Southern College.

ADMISSION OF SPECIAL STUDENTS

Mature individuals who do not meet the above college admission requirements and who do not wish to become degree candidates, or otherwise qualified students who may desire limited credit for transfer to another institution of higher learning, may register as special students. A special student may enroll for a maximum of five semester hours per term.

EXTENSION CLASSES

The Southern College classes that are taught at the site of several private Seventh-day Adventist academies (high schools) are for college credit only and are taken in addition to the student's high school load. These are extension classes and no high school level credit is given.

To enroll in an extension class, students must be members of the senior class with a grade point average of 3.00 or above during the years of their secondary education.

ADMISSION OF INTERNATIONAL STUDENTS

An international student applying to Southern College must have completed the equivalent of a United States high school (secondary) education. The student is required to list only the institutions and dates attended on the application forms, but will not be accepted to Southern College until the college has received original records or official copies of all credits, degrees, diplomas and other credentials, with validation by school or national officials. These should be in the original language, accompanied by a translation (not an interpretation) in English, and certified by an American Embassy official if possible.

The Director of Records of Southern College will evaluate academic documents received for international students based on the recommendations found in the World Education series of booklets published by the American Association of Collegiate Registrars and Admissions Officers and Patterns of Seventh-day Adventist Education, published by the General Conference of Seventh-day Adventists.

Students from countries which administer the G.C.E. (General Certificate of Education) examinations must have earned five (5) or more "O" level academic subject passes (generally at one sitting, with marks 1 through 6 or A through D). Subjects must include English, a natural science, and three others selected from a second language, mathematics, science, and social studies.

Proficiency in English, both written and oral, must be proven before admission. This may be done by taking the Test of English as a Foreign Language (TOEFL). Students whose TOEFL score is 550 meet the official admission level, but students with scores between 490 and 550 may be admitted only on condition that they will enroll for special English

language proficiency classes. These students must enroll as special advisees of the English Department which administers the language classes. Students whose TOEFL scores are below 490 are not eligible for admission to the college.

In addition to the regular college expenses, there are other expenses for an international student. (Please refer to the Financial Information section of the CATALOG.)

According to U.S. Immigration laws, international students may not work more than 20 hours per week and may be employed only on the college campus.

International students should not leave their homeland until they have in their possession:

1. An admissions letter of acceptance from Southern College
2. I-20 form (Immigration and Naturalization Service)
3. A valid passport
4. A valid visa to enter the United States
5. Sufficient funds for the first year at Southern College (in addition to the international surety deposit required of all non-U.S. citizens).

APPLICATION PROCEDURE FOR ADMISSION

- ◆ Prospective students should request application forms from the Office of Admissions.
- ◆ Completed applications should be returned to the Office of Admissions with an application fee of \$20.
- ◆ It is the student's responsibility to request any former schools (high school and college) to forward transcripts to the Office of Admissions in support of the application. These will become the property of the college. **NO TRANSCRIPT WILL BE ACCEPTED DIRECTLY FROM AN APPLICANT.**
- ◆ Students transferring from another college or university who do not have credit for first semester College Composition and three semester hours of college level mathematics will be required to take the ACT prior to registration at Southern College.
- ◆ Upon receipt and evaluation of the application, transcripts of credits, recommendations, and test scores, the Admissions Office will notify the applicant of the action taken.

WHEN TO APPLY OR REAPPLY

New students are urged to submit applications no later than the last term of the senior year of high school. Applications submitted at the beginning of the senior year will sometimes enable the college to suggest ways of strengthening the student's preparation. Because of the difficulty sometimes encountered during the summer months in obtaining necessary transcripts, test scores, and recommendations, more time will be necessary for processing late applications.

Students in residence may submit reapplications without charge until April 30; thereafter the regular application fee of \$20 will be required.

ADMISSION TO GRADUATE PROGRAMS

Students planning to enroll in the Education or Religion master's degree programs should write to the Office of Graduate Admission for information.

STUDENT LIFE AND SERVICES

A college is not only classroom instruction, but also a mode of association. The effectiveness of the college program is enhanced if students develop their interests and meet their needs through participation in the nonacademic activities provided. Students are encouraged to take advantage of the facilities and opportunities planned for their cultural, social, and spiritual growth.

RESIDENCE HALL LIVING

Living in a college residence hall with its daily "give and take" prepares the student to meet life with equanimity, teaches respect for the rights and opinions of others, and offers first-hand experience in adjusting to a social group. Talge Hall houses male students and Thatcher Hall houses female students.

To assure students this beneficial experience, the college requires those students who take more than three semester hours of classwork and who are unmarried, under 23 years of age, and not living with their parents or other approved relatives in the vicinity, to reside in one of the residence halls.

REHABILITATION ACT (1973) Section 504: Services for Students with Special Needs

Southern College is dedicated to the elimination of architectural and prejudicial barriers which prevent any qualified person from attending. All applications are welcomed. Students who anticipate the need for special services are encouraged to arrange with the Admissions Office for a visit to the campus at which time the applicant will receive information concerning all features of campus life and can share with the college officials any information pertinent to personal needs.

DINING

For the promotion of student health and enjoyment, Southern College provides a complete vegetarian cafeteria service, organized to serve the students' needs. The spacious dining hall is an inviting center of social and cultural life at the college, and service by the cafeteria staff is available for the many student and faculty social functions. Auxiliary dining rooms are available for meetings of various student or faculty organizations. Two vegetarian fast-food shops are also operated on the campus by the Food Service Department. K.R.'s Place is conveniently located in the Student Center and the Campus Kitchen is at nearby-by Fleming Plaza.

CHAPLAIN'S OFFICE

Any student of Southern College has the opportunity to enrich his/her personal relationship with Jesus through Campus Ministries' activities. Through the programs coordinated from the Chaplain's Office, students can engage in a wide variety of on- and off-campus spiritual activities. CARE ministries is the acronym for Collegiate Adventist Reaching Everyone. Student leaders working with the campus chaplain direct outreach activities such as Campus Ministries, CABL (Collegiate Adventist for Better Living), Destiny Drama Company, Collegiate Missions, and numerous religious programs.

Southern College enjoys a reputation of having a strong commitment to mission service. There are opportunities for short-term mission projects as well as traditional student missionary positions or volunteer task force positions. The "Call Book" which is published by the General Conference Youth Ministries Department is available in the Chaplain's Office located in the Student Center on the third floor of Wright Hall. Students interested in any mission or task force position may work through the Chaplain's Office for information and placement in mission positions.

The campus chaplain serves as a pastor for the college campus. The chaplain is available for spiritual counseling, personal and relationship concerns, or any situation in which students desire personal and professional counseling. It is the desire of the Chaplain's Office to provide a safe, confidential setting for students to discuss personal issues.

Since many college students choose a life partner while here at the college, the Chaplain's Office provides various premarital inventories and counseling programs to aid in the establishment of healthy Christian relationships.

CAREER SERVICES

Key elements in selecting an academic major and career are discovering one's interests and abilities. The Counseling Center invites students to discuss career options, self-assessment, aptitudes, interests, and goals with a counselor.

The Counseling Center offers assistance in résumé and cover letter preparation, graduate school and employment application processing, and job interview preparation. Recruiters from professional schools and businesses regularly visit the college to interview seniors. Annual job opportunities and health career fairs provide students with opportunities to network with employers.

COUNSELING AND TESTING SERVICE

During registration each student is assigned an academic adviser who will assist in program planning and give advice and guidance on academic questions throughout the school year. Students may also seek counsel concerning academic or personal problems from any member of the faculty.

Students with personal problems who wish assistance from a professional counselor should contact the Counseling and Testing Center. Personnel trained in counseling and testing are available to those with social and personal problems.

The testing service works in close cooperation with the counseling service in providing guidance information to both students and counselors. Students are urged to take advantage of the testing service as a means of obtaining information useful in personal, educational, and career planning.

Southern College is an established non-Saturday National Test Center for the administration of entrance examinations for students applying to graduate and professional schools. Contact the Counseling and Testing Center for test applications and test date information.

HEALTH SERVICE

The Health Service is administered by a nurse director in cooperation with a college physician and the Vice President for Student Services. The director uses the physician's standing orders and maintains regular office hours. The college physician holds regular clinic hours each weekday morning.

An infirmary is provided and staffed in the evenings and at night by live-in registered nurses. These nurses are available to other students on an on-call basis.

The Health Service is available to all residence hall occupants and all students taking seven or more hours (three hours in the summer). The infirmary is available to all residence hall occupants. There is no charge for seeing a nurse or using the infirmary. There is a minimal charge to cover costs of equipment used in some treatments. Medications given are charged by the pharmacy.

All students taking seven hours or more must purchase the Student Accident and Sickness Insurance Plan or show proof of coverage by another policy. Spouses of students and those taking less than seven hours may also purchase the plan. A policy brochure describing complete benefits and terms is given to each student at registration. In case of major illness, students may be referred to off-campus hospital facilities.

ORIENTATION PROGRAM

Southern College has a personal interest in the success of the student desiring a college education. There is much that the student must do to get acquainted with the academic, social, and religious life of the college by perusing this bulletin and the *Southern College Student Handbook*. Instruction and counsel are given which will help the student better understand the college program and what is expected of him/her as a citizen of the college community.

Orientation for new freshman students is held prior to registration for the fall term. It includes instruction helpful in course planning. The student is introduced to the facilities, purposes, and functions of the college. Social occasions are also provided when students may meet faculty members and fellow students. All new freshman students are required to attend the orientation program.

STUDENT EMPLOYMENT SERVICE

Southern College encourages every student enrolled to organize his/her educational program on the study-work plan. It is a policy of the college to give students first priority for jobs. If a student wants to work, is physically and emotionally able to work, and has arranged his class schedule to accommodate a reasonable work schedule, he should be able to obtain employment on campus. Students seeking employment should contact the Personnel/Student Employment Office.

STUDENT ASSOCIATION

Every student at Southern College who is taking eight or more semester hours of classwork is a member of the Student Association with voting privileges. Opportunities for leadership development and for cooperation in achieving the objectives of Southern College are afforded by the Association. The Association assists the college administration and faculty in the implementation of policies and assumes responsibility in giving direction to campus activities entrusted to it.

The Association's activities are coordinated and communicated through the Student Senate and Cabinet and their several committees. The activities include the publishing of the newspaper, *Southern Accent*; the yearbook, *Southern Memories*; the weekly announcement sheet, *Campus Chatter*; and the student-faculty pictorial directory, *Joker*.

The activities and responsibilities of the officers and the detailed organization of the Student Association are outlined in the *Student Association Constitution and Bylaws*.

CAMPUS ORGANIZATIONS

Aside from the Student Association and its committees, more than thirty campus organizations provide opportunities for enrichment, leadership training, and enjoyment. They include church-related organizations—Campus Ministries, Student Ministerial Association, Collegiate Adventists for Better Living; clubs related to academic interests sponsored by the departments; social clubs—Married Couples' Forum, Sigma Theta Chi (women), Upsilon Delta Phi (men), Black Christian Union, and special interest or hobby clubs.

Students may join any of the clubs but must have a cumulative grade point average of 2.25 or a grade point average of 2.50 for the previous semester to hold any elected office.

CONCERT-LECTURE SERIES

Each year a concert-lecture series featuring significant artists and lecturers is provided for students, generally in connection with the weekly assembly program. The cost of admission for students is included in the tuition.

STANDARDS OF CONDUCT

In harmony with the objectives of the college, high standards of behavior are maintained to encourage the development of genuine Christian character. Mature Christian students of sound spiritual and social integrity appreciate standards that elevate and ennoble. Admission to Southern College is a privilege that requires the acceptance of and compliance with published and announced regulations. Only those whose principles and interests are in harmony with the ideals of the college and who willingly subscribe to the social program as ordered are welcomed. It therefore follows that since students at Southern College receive an education subsidized by the Seventh-day Adventist Church, those who engage in activities determined to be detrimental to the church on or off campus will not be knowingly accepted or retained.

A student who is out of harmony with the social policies of the college, who is uncooperative, and whose attitude gives evidence of an unresponsive nature may be advised to withdraw without specific charge. The use of tobacco or alcoholic beverages, the improper use of drugs, card playing, dancing, profane or vulgar language, hazing, and improper associations are to be avoided.

Each student is expected to acquaint himself with the standards of conduct published in the *Southern College Student Handbook*. The handbook includes levels of social discipline and the appeal route. A copy may be obtained from the office of the Vice President for Student Services. Interim announcements of policies adopted by the faculty are of equal force with those listed in official publications.

ASSEMBLY AND WORSHIP SERVICES

In private parochial education it has been shown that elimination of residence hall worship and all school-wide convocations is the first step toward the separation of the school from its sponsoring church. Convocation exercises in the residence halls and for the entire student body serve educational and spiritual purposes. They also provide an element of unity which is one of the most desirable features of private education such as is found at Southern College. The Spiritual Emphasis weeks and the weekend church services assist in the spiritual growth of the students. Students are required to attend these services regularly. Failure to do so will jeopardize the student's current status and readmission privileges.

PHOTO RELEASE

By registering at Southern College, students authorize the use and reproduction by the college, or anyone authorized by the college, of any pictorial images (including conventional, video, and digital photography) taken of them while enrolled at Southern College, without compensation. All negatives, positives, and prints shall constitute Southern College property, solely and completely.

ACADEMIC ENRICHMENT SERVICES

E. A. ANDERSON LECTURE SERIES

The E. A. Anderson Lecture Series is an annual feature of the business curriculum. The series is made possible by the generosity of E. A. Anderson of Atlanta, Georgia, for the purpose of giving the student a broader understanding of the business world. The public is invited to attend the lectures free of charge; however, for a fee, continuing education credit is available. Lectures are presented at 8 p.m. on Monday evenings during the second semester, in the E. A. Anderson Business Seminar Room, Room 333 in Brock Hall.

EUGENE A. ANDERSON HEILLER ORGAN CONCERT SERIES

The Anderson Heiller Organ Concert Series was initiated in 1986 to provide world-class organ concerts. These concerts and workshops are presented by foremost organists from throughout the world. Selected performances are broadcast internationally on the American Public Radio Program, "Pipe Dreams." The series is made possible through the generosity of Eugene A. Anderson of Atlanta, Georgia, for the education and enjoyment of the students and the public. Because of its uniqueness, this series attracts organists and other fine arts enthusiasts from all areas of the country.

The Anton Heiller Memorial Organ, a 70-stop 108-rank tracker, was dedicated in the Collegedale Seventh-day Adventist Church in April 1986. A second instrument, a mean-tone organ with two manuals and 13 stops, is housed in Ackerman Auditorium. Both were built by John Brombaugh and Associates of Eugene, Oregon.

FLORENCE OLIVER ANDERSON LECTURE SERIES

Each year the Nursing Department at Southern College of Seventh-day Adventists brings nationally recognized experts in the health field on campus to address the professional community. Southern College believes education to be a dynamic lifelong process and is committed to providing professional nurses with continuing education opportunities, as well as exposing student nurses to the importance of self-initiated education.

This series of seminars is dedicated to excellence in nursing and is made possible by the generosity of the late Florence Oliver Anderson.

CHAMBER MUSIC SERIES

Ackerman Auditorium in J. Mabel Wood Hall is the setting for the Chamber Music Series. Each semester two or three artists and/or ensembles provide a variety of listening experiences for students, faculty, and the community. Artists are chosen in such a fashion that over a four-year period a student can become acquainted with solo and ensemble music of many style periods. Master classes are often scheduled in conjunction with a concert.

CLASSIC FILM SERIES

Christian education involves the difficult challenge of learning to live in a secular society while remaining critical of its values. To this end, the Classic Film series, sponsored by Student Services and the History Department, seeks to present films that are historically significant but also informative and entertaining. They are intended to augment the educational and cultural experience of students at the college level and encourage the application of critical thinking to popular culture. Critical notes are provided to aid in deciphering the film's latent content from its manifest content.

E. O. GRUNDSET LECTURE SERIES

The E. O. Grundset Lecture Series is jointly sponsored by the Southern College Chapter (Kappa Phi) of the Beta Beta Beta National Biological Honor Society and the Biology Department. Five or more lectures are presented each semester by guest speakers. The general public is invited.

The lectures are divided into two categories. The *Technical Research Seminars* are designed to update students, faculty, and the community on current biological research as well as to illustrate to students how biological knowledge is acquired through research. The *Natural History Lectures* are less technical and provide a general understanding of organismic and ecological biology, either by a description of the plants or animals in a certain region or an account of the behavior, habits, or ecology of certain species.

ROBERT H. PIERSON LECTURE SERIES

The Robert H. Pierson Lectureship is sponsored annually by the Department of Religion at Southern College of Seventh-day Adventists under the auspices of the Ellen G. White Memorial Chair in Religion to facilitate the training of ministers in Biblical Studies, Theology, History, Adventist Heritage, Homiletics, Administration, and in other areas of preparation.

THOMAS F. STALEY LECTURE SERIES

The Thomas F. Staley Foundation is a private, nonprofit organization, established to administer funds to further the Evangelical witness of the Christian church on college campuses.

Administered through the Religion Department, the trustees of this Foundation provide speakers who truly believe and effectively propagate the Gospel of Jesus Christ in its historical and scriptural fullness.

INSTRUCTIONAL MEDIA

The Instructional Media Service provides audio-visual services to the college administration, faculty, staff, and students. The full-time staff includes a director, secretary, and service technician.

LIBRARIES

McKee Library provides both print and nonprint educational materials for the students and faculty of the college. Open stacks, pleasant areas to read or study, current periodicals, and a large microform collection contribute to the enjoyment of learning. Special collections in the library

include the Seventh-day Adventist Heritage Collection: books and materials by SDA authors and about the Seventh-day Adventist Church; and the Dr. Vernon Thomas Memorial Civil War and Abraham Lincoln Collection: books, letters, manuscripts, newspapers, pamphlets, pictures, paintings, maps, and artifacts of this period in American History.

The combined collection of these libraries contains over 400,000 items. Over 1,000 periodicals are currently received which include a large number of titles kept permanently on microform. McKee Library has an online computerized card catalog as well as a computerized magazine index and offers access to the Internet. Various databases are available on CD-ROM. The library is a member of Ohio College Library Center and charter member of the Southeastern Library Network automated systems.

The facility has been in use since 1970, and provides seating for 350, including 183 individual study carrels.

MARINE BIOLOGICAL STATION

Southern College is affiliated with two marine biological stations to enrich and supplement its on-campus programs. One of these facilities, the Bahamian Field Station, is located on the island of San Salvador, Bahamas, and provides the opportunity for students to study tropical ecology, both terrestrial and marine. This station provides lodging, classroom, and laboratory facilities for studying coral reef, sandy beach, rocky shore, and mangrove swamp biomes.

The affiliation with Walla Walla College's Rosario Beach Marine Biological Station on Fidalgo Island in the Puget Sound provides students with opportunities to study some of these similar habitats in a temperate climate. This station in the state of Washington also furnishes facilities for summer classwork and research. Its close proximity to biomes ranging from sea bottom to Alpine tundra provides an excellent opportunity for instruction and investigation.

WSMC FM90.5

WSMC FM90.5 (Chattanooga's classical station) is a 100,000 watt, noncommercial, fine arts radio station licensed to Southern College.

WSMC provides training for students in the field of broadcasting. The station regularly hires between 15 and 20 students as on-air announcers, reporters, or production assistants. The station is an excellent way for the student to receive hands-on experience in the field of broadcasting.

WSMC represents the college to the Greater Chattanooga community, with a coverage area including a 100-mile radius of Chattanooga. Founded in 1961, it is the oldest noncommercial fine arts station in southeastern Tennessee. WSMC was the first radio station in a seven-state region to receive satellite capability. The station also exists as an outreach of the college—striving to enhance the quality of life in the community.

The station produces high-quality fine arts, informational, educational, and inspirational programs. WSMC is affiliated with Public Radio International.

WSMC's broadcast studios are located in Brock Hall. The facility includes a studio-quality production room, news room, music library, and on-air studios.

ACADEMIC POLICIES

PLANNING A COURSE OF STUDY

When planning their course work, students should acquaint themselves with their chosen program of study and graduation requirements outlined in this CATALOG. Students who have not decided their course of study before entering college may take a general program exploring several fields. This approach need not result in loss of credits if carefully planned.

Freshman students may consult faculty members during the summer months before the beginning of the fall term. Students planning to teach should consult the Department of Education and Psychology to include teacher education courses as a part of their program in order to qualify for denominational and state certification.

Degree candidates are responsible for satisfying all degree requirements. They may choose to meet the requirements of any one catalog in effect during the period of residency. If students discontinue their education for a period of twelve months or more, they must qualify according to the catalog in force at the time of their return.

GENERAL DEGREE REQUIREMENTS: Master's Degree

The general degree requirements for a master's degree are described in a separate Graduate Catalog, available by writing to the Office of Graduate Admissions. Master's degrees are available in Education, beginning in the summer of 1996, and Religion, beginning the summer of 1997.

GENERAL DEGREE REQUIREMENTS: Baccalaureate Degree

The general degree requirements for a baccalaureate degree are as follows:

- ◆ Satisfactory make-up of admissions deficiencies. (See page 11).
- ◆ A minimum of 124 semester hours with a resident and cumulative grade point average of 2.00 (C) or above.* Students earning the Bachelor of Music degree will take 132 semester hours.
- ◆ A minimum of 40 hours of upper division credit, to include at least 14 upper division hours in the major for a B.A. degree and at least 18 upper division hours in the major for all other degrees.
- ◆ Completion of a major and minor (two majors accepted) for a B.A. degree or completion of a major for other degrees with a cumulative grade point average of 2.25 in the major,* completion of the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than a "C-" will not be applied on a major or minor. Grades of "C" or better are required for the Nursing major and grades of "C" or better are required for Nursing cognate courses.
- ◆ More than one major may be earned provided all courses required for each major and its cognates are completed. Each major must include a minimum of 20 semester hours that do not overlap with any other major or minor.

*For educational certification, the minimum grade point average (GPA) of 2.50 must be met both in education and in the field of certification. In elementary education, a GPA of 2.50 is required in the major and in required non-major subjects. The music major requires a GPA of 2.25 both in applied music and other music courses. The nursing major requires a GPA of 2.50 in cognate courses as well as in the major. The medical technology major requires minimum grades of C- and a minimum average of 2.25 in the major and cognates.

GENERAL DEGREE REQUIREMENTS: Baccalaureate, cont.

- ◆ More than one minor may be earned provided all courses required for each minor are completed. Each minor must include a minimum of 12 semester hours that do not overlap with any other major or minor.
- ◆ Completion of an examination as required by the department.
- ◆ Students wishing to obtain a second degree will need to complete, beyond the 124 minimum hours required, a minimum of 30 hours, including 16 hours upper division, and a new major.
- ◆ Completion of General Education requirements as spelled out in the "General Education Requirements" section of this CATALOG.

GENERAL DEGREE REQUIREMENTS: Associate Degree

- ◆ A minimum of 64 semester hours and a resident and cumulative grade point average of 2.00 (C) or above. Nursing majors need 69 semester hours and a minimum cumulative GPA of 2.50.
- ◆ Completion of a major, the general education requirements, and electives to satisfy the total credit requirements for graduation. Courses completed with grades lower than "C-" will not be applied on a major.
- ◆ Students who have completed one associate degree and who wish to obtain another associate degree may do so upon completion of the curriculum prescribed for the second degree.
The work completed for the second degree must include at least 24 hours in residence over and above the number of hours earned for the first degree. If the second associate degree is earned subsequent to the first associate degree, the requirements for the second degree will be governed by the provisions of the CATALOG in effect at the time the student re-enters the college for work toward the second degree.
- ◆ Students who wish to obtain an associate degree at the time they receive a baccalaureate degree may do so if the degrees are in different fields. If requirements for an associate and a baccalaureate degree in the same field are completed at the same time, only the higher degree will be conferred.

ONE-YEAR CERTIFICATE REQUIREMENTS

- ◆ A minimum of 32 semester hours which meet the requirements of a specific one-year program.
- ◆ A resident and cumulative grade point average of 2.00 (C) or above. Grades in the technical area below "C-" will not be accepted.

GENERAL REQUIREMENTS: Minor

- ◆ A minimum of eighteen semester hours of which six must be upper division credit.

CLASS STANDING

| | |
|----------------------|----------------------|
| Freshmen | 0-23 semester hours |
| Sophomores | 24-54 semester hours |
| Juniors | 55-93 semester hours |
| Seniors | 94 semester hours |

Eligibility for class office requires a grade point average of 2.25 and a good citizenship record.

GRADUATION REQUIREMENTS

Degree Candidacy: A student becomes a degree candidate when s/he enters the school term during which it will be possible to complete all requirements for graduation. Formal application for graduation must be made during the fall registration of the senior year.

Dates of Graduation: The date of graduation will be (a) the date of commencement for those graduating at the close of the school year; (b) the last day of the semester for those finishing first semester; and (c) for others, the last day of the month in which graduation requirements are met. A commencement service occurs at the end of the second semester of each school year.

Transcripts: Before a student will be allowed to graduate, transcripts of all correspondence and transfer credits must be received at the Records Office.

Participation in Graduation Exercises: Students are allowed to participate in commencement exercises only if they have completed all the courses they need for graduation or if they submit approved plan for completing their courses during the summer.

Prospective Summer Graduates: A \$200 fee is charged to students who are listed on the May graduation program as prospective summer graduates. This fee is refundable only if the degree requirements are completed by August 31. Criteria for students to be listed on the graduation program as prospective summer graduates are as follows:

1. They must lack no more than six hours of regular coursework or eight hours of internship.
2. They must submit a plan showing how they can complete the hours they lack in the summer.
3. They must have all incomplete grades made up, challenge examinations completed, etc. at the same time as the May graduates—three to four weeks prior to commencement.
4. They must meet the minimum GPA standards at Southern College, overall, and in the major as of midterm of the second semester.

Deferred Graduation: Students ordinarily graduate under the requirements of the CATALOG of the year in which they enter the college. Students who are studying for a baccalaureate degree and fail to graduate within six calendar years (four years for an associate degree), must plan to conform to the current CATALOG.

RESIDENCE REQUIREMENTS

Baccalaureate Degree: Thirty of the thirty-six semester hours completed immediately preceding the conferment of the baccalaureate degree must be taken in residency. The total hours taken in residence must include fifteen in upper division, of which nine must be in the major and three in the minor fields.

Associate Degree: Thirty of the thirty-six semester hours completed immediately preceding the conferment of the associate degree must be taken in residence. The total hours taken in residence must include fifteen in the major field of study and three in the minor if a minor is taken.

Certificate Programs: Eighteen semester hours of credit must be completed in residence immediately preceding the conferment of a one-year certificate.

Transfer Credit: Prior arrangements must be made with the Records Office to take courses for transfer credit at another college or university during any session the student is simultaneously enrolled at Southern College and during any summer after initial enrollment. See department sections of the CATALOG for classes which must be taken in residence.

PREREQUISITE FOR TAKING UPPER DIVISION CLASSES

Students must complete forty semester hours of 100 and 200 level courses (lower division) before enrolling in a 300 or 400 level course (upper division). **The English Composition and mathematics requirements in area A, Basic Academic Skills, of General Education must be met before enrollment in upper division classes.**

GENERAL EDUCATION

General Education is an important part of what students experience at Southern College. It is provided through several programs, four of which are described here—Writing Across the Curriculum, Community Service, General Education Course Requirements, and Southern Scholars.

Writing Across the Curriculum: The Writing Across the Curriculum program at Southern College is one of the longest-running programs of its kind in the nation. The goal of the program is to assist students in developing writing skills suitable to various disciplines. Such skills will also make students more competitive in the job market. Thus, candidates for the bachelor's degree must complete three writing-emphasis classes as outlined in the general education requirements. These classes are carefully tailored to emphasize personal growth in writing skills through both spontaneous and planned writing exercises. Students should also expect writing requirements in courses other than those designated as writing-emphasis courses.

Community Service: Promotion of voluntary, unselfish service to mankind is a thread that runs through all programs of study at Southern College. Volunteerism, however, cannot be mandated. It can only be encouraged. Students at Southern are encouraged to volunteer for community service through government, philanthropic, cultural, political, church, medical, educational, environmental, and other organizations and agencies or through individual projects. Based on nominations from each academic department, Community Service Awards are presented each year at the annual Awards Assembly to students who have made an exceptional contribution of time and effort in serving others.

General Education Course Requirements: While recognizing the validity of many different general education programs, the faculty of Southern College have designed the following sequence that provides development of academic skills and opportunities for self-fulfillment, and conveys basic values of both the Seventh-day Adventist Church and western civilization. Students may exercise considerable latitude when selecting courses to comply with General Education requirements. A comprehensive general education test is required of all four-year seniors.

AREA A. BASIC ACADEMIC SKILLS

A graduate of Southern College can use the skills of reading, writing, and mathematics.

Underlying all general education requirements are the basic academic skills of English and mathematics. It is important for a graduate to be able to discern an author's organization, arguments, and supports, and to write coherently, fluently, and grammatically. Graduates need numeric and symbolic computation skills to function successfully in our scientific and technological society.

All English Composition and mathematics requirements in Area A must be completed before upper division work is undertaken.

Upper division transfer students may take Area A requirements concurrently with upper division classes.

1. English

6-9

6-9

ENGL 101 and 102 are required for both the associate and the bachelor's degrees.

Students with an Enhanced ACT English score below 17 must take ENGL 099 before enrolling in ENGL 101.

2. Mathematics

0-3

0-3

Students with a Mathematics ACT score below 22 must take one mathematics course (100 level or above).

MATH 080 is required of all students who meet none of the following criteria: 1) ACT Mathematics score of 16 or above, 2) ACT Mathematics Elementary Algebra subscore of 8 or above, 3) Completion of high school Algebra II with a grade of C or better.

3. Candidates for the bachelor's degree must complete three writing-emphasis classes.

These classes are identified by a "(W)" following the course name, [e.g., History of the South (W)] in the departmental listings. One such class must be in the student's major field and one must be outside the major field. The third may be chosen from any area. The writing done as a part of the program overseas completed by students majoring in International Studies will be accepted in place of a specially designated "W" course in the major.

AREA B. RELIGION

6

12

A graduate of Southern College has a knowledge of the Bible and a sense of Christian community based on the teachings, beliefs, and history of the Seventh-day Adventist Church.

A correct understanding of the human condition results from a knowledge of the Bible as God's word, a commitment that springs from that truth, and a system of values derived from such knowledge and insight.

Transfer students must take 3 hours for each year or part thereof in attendance at an SDA college with a minimum of 6 hours. Bachelor's degree students must take at least three hours from each of the first two sub-areas and include one upper-division class.

| Semester Hours | Assoc. Bachelor's |
|----------------|-------------------|
| 6 | 12 |

AREA B. RELIGION, cont.**1. Biblical Studies**

All RELB courses.

2. Religion and Theology Studies

All RELT courses. (Only one of RELT 317, 318, or 424 will apply.)

3. Professional Studies

One course may be chosen from RELP 251, 354, 465, or 468.

AREA C. HISTORY, POLITICAL, AND ECONOMIC SYSTEMS

A graduate of Southern College has knowledge of history and the skill to analyze political and economic systems.

It is essential that one have an historical perspective in a society that allows its members a voice in shaping its political, social, and economic institutions.

Students with less than one secondary school credit for World History must include one of the following: HIST 174, 175, 364, 365, 374, 375, 386 or 389.

1. History

All HIST courses except 490.

2. Political and Economic Systems

All PLSC courses; GEOG 306; ECON 213, 224, 225.

[Students studying for licensure in elementary education may take GEOG 204 for C-2 credit.]

AREA D. LANGUAGE, LITERATURE, FINE ARTS

A graduate of Southern College can recognize the impact of arts and humanities on life and integrate such knowledge into personal experience.

Language, literature, speech, and the fine arts convey ideas, values, and emotions. An acquaintance with these modes of communication enhances the ability to express oneself and fosters an appreciation of the cultural heritage of world civilization and the complexities of human existence.

Bachelor's degree students must include at least 2 hours in each of 3 sub-areas. Students entering Southern College who have less than two secondary school credits of foreign language and who are pursuing a Bachelor of Arts degree must complete the elementary level of a foreign language.

Degree programs that do not require SPCH 135, 136, or 236 have at least one required course in the major that contains an oral communication emphasis.

1. Foreign Language

FREN 101-102, 207-208; GRMN 101-102, 207-208; SPAN 101-102, 207-208; RELL 251-252, 271-272, 311-312.

**Semester Hours
Assoc. Bachelor's**

**AREA D. LANGUAGE, LITERATURE,
FINE ARTS, cont.**

3 9

2. Literature

All literature courses offered by the English Department and ENGL 326.

3. Music and Art Appreciation

HMNT 205; MUHL 115, 320, 321, 322, 323;
MUCH 215; ART 218/318, 344, 345.

4. Speech

SPCH 135 or 136.

AREA E. NATURAL SCIENCE

3-6 6-9

A graduate of Southern College comprehends the basic concepts of science and can apply the scientific method to problem solving.

A study of the sciences develops an inquiring attitude toward one's environment. It provides individuals with empirical and rational methods of inquiry and an awareness of both the potential and the limitations of pure and applied science in solving problems.

Bachelor's degree students must take at least 3 hours from each of 2 sub-areas. Only one of the following may apply: BIOL 424, PHYS 317, 318. Students who have less than two secondary school units in science, and a Science Reasoning ACT standard score less than 14, must take 3 hours of science above the usual requirements; e.g. associate degree students must take 6 hours and bachelor's degree students must take 9 hours.

Southern Scholars must take a sequence of two classes from the same department. See the "Honors Studies Sequence" section on page 30 of the CATALOG for clarification.

1. Biology

BIOL 101-102, 103, 151-152, 225, 226, 250, 314, 424.

2. Chemistry

CHEM 103, 111-112, 113-114, 151-152.

3. Physics

PHYS 137, 138, 155, 199, 211-212, 213-214, 317, 318.

4. Earth Science

ERSC 105.

**AREA F. BEHAVIORAL, FAMILY,
HEALTH SCIENCES**

2 5

A graduate of Southern College will have a knowledge of and be able to apply the dynamics of personal relationships, social interaction, and healthful living toward effective service.

The basic social units significantly shape people's lives, and a knowledge of their workings is necessary to understand ourselves and others.

Semester Hours
Assoc. Bachelor's**AREA F. BEHAVIORAL, FAMILY,
HEALTH SCIENCES**

2 5

Bachelor's degree students must include at least 2 hours in two of the following sub-areas:

1. Behavioral Science

PSYC 124, 128, 217, 224, 233, 315, 349, 377, 415; SOCW 211, 212, 233, 375, 424, 296/496; EDUC 217, 427; all SOCI courses except 201, 223, 365.

2. Family Science

BUAD 128; SOCI 201, 223, 233, 365; SOCW 233; PSYC 233.

3. Health Science

HLED 173; FDNT 125; NRSRG 265.
Women's issues - Nurs 265

AREA G. ACTIVITY SKILLS

A graduate of Southern College will understand how to live a balanced life by following the principles of wellness and using leisure time wisely. The Seventh-day Adventist philosophy stresses the balanced development of the whole person. Toward this goal, education in the use of leisure time is important, particularly in creative, recreational, and practical skills. Associate degree students may take a maximum of 2 hours in any sub-area; bachelor's degree students may take a maximum of 3 hours in any sub-area. All students must take coursework from G-3.

1. Creative Skills

All MUPF courses; ART 104-105, 119-120, 125-126, 221, 235; ENGL 314; JOUR 125, 315.
[Students studying for licensure in elementary education may take ART 230 for G-1 credit.]

2. Practical Skills

ACCT 103, 221-222; BUAD 126; CPTE 245/345, 249; CPTR 102, 104, 105, 106, 107, 116, 120, 131, 132, 217; EDUC 250; ENGL 313; ENGR 149; JOUR 103, 205; OFAD 115, 218, 223, 228, 345; SOCW 101; TECH 145, 149, 154, 164, 174, 223, 264/364.

3. Recreational Skills

PEAC 225 is required for both the associate and the bachelor's degrees. An additional PEAC course is required for the bachelor's degree. Optional pass/fail grading is available for these courses.

Gen Studies - 4 hrs
3 6

Can have 2 PE activity

SOUTHERN SCHOLARS (Honors Program): The honors program is designed for students who bring to their baccalaureate studies a high degree of motivation and intellectual curiosity. Special projects, interdisciplinary studies, and designated honors courses provide a challenging and intellectually stimulating educational experience. Degrees of depth and breadth are attained in this experience beyond those normally attained in regular baccalaureate studies.

The program is administered by an Honors Committee which admits students to the program and discontinues honors status of those who fail to maintain minimum program standards. Its members also advise individual Southern Scholars and continually monitor their progress.

Eligible students will be invited to become Southern Scholars during registration. Freshmen are eligible if they have a high school GPA of 3.70 or higher. Other students must have completed at least 31 and at most 62 semester hours with a cumulative GPA of 3.50 or higher.

To continue as Southern Scholars, students must complete a minimum of twelve credits each semester and thirty-one credits each calendar year. They must also enroll in appropriate honors sequence courses, receive a B (3.00) average or higher in the honors sequence courses and maintain a minimum cumulative GPA of 3.50. All honors students are expected to graduate within a four-year period unless extenuating circumstances justify an extension by the honors committee.

Ordinarily, all courses of the honors sequence must be taken in residence. Limited exceptions may be made by the honors committee in the case of transfer students. Students already enrolled at Southern College who wish to take honors sequence classes at another institution must secure prior approval from the honors committee.

After completing one year in the honors program, Southern Scholars may receive a waiver for the cost of auditing one class each semester that they remain in the program. Once having earned junior status and having finished one year in the program, Southern Scholars will receive a tuition refund equivalent to four three-hour classes. The "per hour" rate for a 16-hour class load will be the basis for calculating the refund. Southern Scholars also receive a 100 percent tuition waiver for Honors Seminar, HMNT 451, 452, calculated according to the tuition waiver policy explained on page 235.

HONORS STUDIES SEQUENCE

A. General Education

Honors students must meet regular general education requirements with the following stipulations:

1. Area B-2. One of the following courses must be selected: RELT 317, 318, 368, 424, or 467.
2. Area D-1. Foreign language competency must be attained at the intermediate level.
3. Area D-2. ENGL 445 must be selected.
4. Area D-3. HMNT 205 must be selected.
5. Area E. MATH 181 or MATH 215 and one of the following science sequences must be selected: BIOL 151-152; CHEM 151-152; PHYS 211-212 with PHYS 213-214; PHYS 317 and 318.

B. Honors Seminar

HMNT 451, 452, a sequence of eight seminar sessions, one each month, September through April. Taken during the junior or senior year.

C. Project (2-3 hours, Directed Study)

A significant scholarly project, involving research, writing, or special performance, appropriate to the major in question, is ordinarily completed the senior year. Ideally, this project will demonstrate an understanding of the relationship between the student's major field and some other discipline. The project is expected to be of sufficiently high

quality to warrant a grade of A and to justify public presentation. The completed project must be approved by the Honors Committee in consultation with the student's supervising professor three weeks prior to graduation. The 2-3 hours of credit for this project is typically done as directed study or in a research class.

GRADUATION WITH ACADEMIC HONORS

Students graduating with a cumulative GPA of 3.50 or above will have the degree conferred as follows: 3.50-3.74, *cum laude*; 3.75-3.89, *magna cum laude*; 3.90-4.00, *summa cum laude*. The appropriate designations will appear on the diploma.

HONOR ROLL/DEAN'S LIST

At the conclusion of each semester of the school year, students who have carried a minimum of 12 semester hours and who have attained the following grade point averages will be included in the honors group indicated:

3.25 Honor Roll

3.50 Dean's List

3.75 Distinguished Dean's List

STUDENT MISSION/TASK FORCE CREDIT

Students may earn twelve hours of elective credit while participating in the Student Mission/Task Force programs. Details are available in the office of the College Chaplain. Students who wish to serve as student missionaries or task force workers must plan their programs a year in advance to fulfill necessary prerequisites.

MAJOR AND MINOR REQUIREMENTS

Each major consists of thirty hours or more in the chosen field of specialization of which a minimum of fourteen for a Bachelor of Arts degree and eighteen for all other bachelor's degrees must be upper division credit. The total semester hours required for each major for the Bachelor of Science, Bachelor of Business Administration, Bachelor of Music, and Bachelor of Social Work degrees varies with the field of specialization chosen.

All minors consist of at least eighteen semester hours. Six hours of a minor must be upper division credit.

The specific requirements for majors and minors are given under the respective disciplines in the section "Courses of Study."

DEGREES AND CURRICULA

A **Master's Degree** consists of at least one additional year of coursework beyond the bachelor's degree. It includes a field of concentration and may require a thesis.

The **Bachelor of Arts** degree consists of four years of course work that places a student's major field of study in the context of a liberal arts education. To encourage a wide range of studies, a minor is required. A foreign language component is required.

The **Bachelor of Science** degree consists of four years of course work that places the student's major field of study in the context of a liberal arts education. The degree permits greater concentration in the field of study.

No minor or foreign language study is required except as specified for certain majors.

The Bachelor of Business Administration degree is a professional degree consisting of a four-year program with concentrations available in various fields of business. Requirements for this degree are outlined in the Business and Office Administration Department section.

The Bachelor of Music degree is a professional degree consisting of four years of course work designed to meet the needs of students wishing to receive teaching credentials. Requirements for this degree are outlined in the Music Department section.

The Bachelor of Social Work degree is a professional degree consisting of a four-year program of courses designed to meet the needs of students wishing to go into the social work profession. Requirements for this degree are outlined in the Behavioral Science Department section.

The Associate of Arts degrees is a two-year program designed to meet the needs of students who wish to pursue a short general studies program.

The Associate of Science degree is a two-year program designed to meet the needs of students who wish to pursue a short occupational or pre-professional program.

The One-Year Certificate is available for students in the Auto Body Technician and Auto Mechanics Technician programs. Requirements for these certificates are outlined in the Industrial Technology Department section.

Preprofessional Curricula are programs designed to prepare students to enter professional schools. In some cases preprofessional curricula will lead to an associate degree.

CURRICULUM CHART

| <u>Department</u> | <u>Degree</u> | <u>Major</u> | <u>Minor</u> |
|-------------------------|---------------|---|--------------------------------|
| Allied Health | BS | Medical Technology | |
| | AS | Pre-Cytotechnology | |
| | AS | Pre-Dental Hygiene | |
| | AS | Pre-Nutrition and Dietetics | |
| | AS | Pre-Occupational Therapy | |
| | AS | Pre-Physical Therapy | |
| | AS | Pre-Physician Assistant | |
| | AS | Pre-Speech Language Pathology & Audiology | |
| | AS | Pre-Surgeon's Assistant | |
| Art | BA | Art | Art |
| | BS | Art-Computer Graphic Design | Art-Computer Graphic Design |
| Behavioral Science | BS | Beh Sci-Family Studies | Behavioral Science |
| | BSW | Social Work | Family Studies Sociology |
| Biology | BA | *Biology | Biology |
| | BS | *Biology | |
| Business Administration | BBA | Accounting | |
| | BBA | Computer Info Systems | |
| | BBA | Management | |
| | BBA | Marketing | Marketing |
| | BS | Business Administration | Business Admin |

*Secondary teaching certification available for these disciplines

| <u>Department</u> | <u>Degree</u> | <u>Major</u> | <u>Minor</u> |
|--|---------------|---|---|
| Business | BS | Long Term Care Admin | |
| Department, cont. | BS | Office Administration | Office Admin |
| | AS | Accounting | |
| | AS | Office Administration | |
| Chemistry | BA | *Chemistry | Chemistry |
| | BS | *Chemistry | |
| Computer Science & Technology | BBA | Computer Info Systems | |
| | BA | Computer Science | Computer Science |
| | BS | Computer Science | |
| | AS | CADD Applications | |
| | AS | Computer Science | |
| Education & Psychology | BA | Psychology | Psychology |
| | BA | Psychology (Elem Ed K-8) | Education |
| | BA | Social Science (Elem Ed 1-8) | |
| | BS | Science and Math Studies (Elem Ed 1-8) | |
| | | Secondary Teaching—see *asterisked majors | |
| Engineering Studies | AS | Engineering Studies | |
| English | BA | *English | English |
| General Studies | AA | General Studies | |
| | AS | General Studies | |
| Health, PE, & Recreation | BS | *Health, PE, Rec | Physical Education |
| | BS | Health Science | |
| | BS | Corp/Com Wellness Mgmt | |
| History | BA | *History | History Political Economy Political Science |
| Industrial Technology | Cert | Auto Body Technician | Technology |
| | Cert | Auto Mechanics Technician | |
| | Cert | Graphic Arts Prep | |
| | Cert | Technical Plant Services | |
| Journalism/Communication | BA | Broadcast Journalism | Advertising |
| | BA | Journ (News Editorial) | Broadcast Journalism |
| | BA | Public Relations | Journ (News Editorial) |
| | AS | Media Technology | Public Relations Sales |
| Mathematics | BS | Actuarial Studies | |
| | BA | *Mathematics | Mathematics |
| | BS | *Mathematics | |
| Modern Languages | | (1 year abroad req) | (1 semester abroad req) |
| | BA | International Studies | |
| | | Emphasis in French, German, or Spanish | |
| Music | BA | Music | Music |
| | BMus | *Music Education | |
| Nursing | AS | Nursing | |
| | BS | Nursing | |

Cert = One-year certificate program

*Secondary teaching certification available for these disciplines

| <u>Department</u> | <u>Degree</u> | <u>Major</u> | <u>Minor</u> |
|-------------------|---------------|-------------------------|--------------------|
| Physics | BA | *Physics | Physics |
| | BS | Physics | |
| Religion | BA | *Religious Education | Biblical Languages |
| | BA | Religious Studies | Practical Theology |
| | BA | Theology | Religion |
| | BA | Theology & Religious Ed | |
| | AA | Religion | |

*Secondary teaching certification available for these disciplines

PREPROFESSIONAL CURRICULA

Southern College offers preprofessional and pre-technical programs in a wide variety of fields which may prepare students for admission to professional schools or to enter technical careers. The following nondegree pre-professional curricula are offered at Southern College:

| | |
|------------|----------------------|
| Anesthesia | Optometry |
| Dentistry | Osteopathic Medicine |
| Law | Pharmacy |
| Medicine | Veterinary Medicine |

Detailed requirements for these non-degree preprofessional curricula are outlined by department or in the section on "Interdepartmental Programs" (See Index).

Associate degrees in Allied Health are available to students who fulfill preprofessional requirements for programs designated in the Allied Health section. Because preprofessional and technical admission requirements may vary from one professional school to another, students should become acquainted with the admission requirements of their chosen school.

REGISTRATION

Students are expected to register during the scheduled registration periods designated in the school calendar. Registration is complete only after they have finished all procedures and returned registration forms to the Records Office. Freshmen are required to participate in the orientation activities.

Late Registration. Permission to register late must be obtained from the Director of Records. Students failing to register during the scheduled registration periods will be charged a late registration fee. The course load of a late registrant may be reduced according to the amount of classwork missed. No student may register after two weeks of the semester have elapsed.

Changes in Registration. To avoid changes in registration, students should carefully consider the program of courses necessary to meet their objectives. To avoid subsequent adjustments, a balance should be maintained between the course load, work program, and extracurricular activities.

To make program changes, students must obtain the appropriate change of registration voucher at the Records Office, obtain the necessary signatures indicating approval of the change, and return the form to the Records Office. Course changes and complete withdrawals from the school become effective on the date the voucher is filed at the Records Office. A

fee will be assessed for each change in program after the first week of instruction.

A student may not change from one section to another of the same course without the approval of the instructor.

A student may withdraw from a class up to two weeks after midterm and receive a grade of "W" automatically. A student withdrawing from a class after that date and up to two weeks before the last day of classes will be assigned a grade of "W" or "WF" by the teacher. The grade for any withdrawal during the final two weeks of the semester will automatically be "F."

Auditing Courses. With the approval of the department, students may register on an audit basis in courses (other than private lessons) for which they are qualified. Auditors are to be admitted to classes of limited enrollment only if there are places after all students who wish to enroll for credit have been accommodated. Class attendance is expected but examinations and reports may be omitted. With the approval of the instructor, a student may change a course registration from audit to credit or from credit to audit only during the first week of instruction. No credit is given for courses audited, and the fee is one-half of the regular tuition charge.

Canceled Classes. The Vice President for Academic Administration or a department may cancel a class for which fewer than six students enroll. This policy applies to ordinary classes but not to directed study courses, private lessons, and other special classes such as special methods of secondary teaching. Students enrolled in canceled classes should confer with their advisers to determine alternate means to complete their schedules.

COURSE LOAD

College courses are expressed in semester hours. A semester hour consists of one fifty-minute class period per week for one semester. Thus, two-semester-hour classes meet two hours a week and three-semester-hour classes meet three hours a week. A laboratory period of two and one-half to three hours is equal to one class period. Students should expect to study up to two hours outside of class for each fifty-minute period the class meets. Ideally, a sixteen-semester-hour class load should require up to 32 hours of study each week by the student. Except by permission of the Vice President for Academic Administration, a student may not register for eighteen or more semester hours.

To qualify for a baccalaureate degree in four years, a student must average between fifteen and sixteen hours per semester. The summer term may be used to advantage by students wishing to complete degree requirements in less than four years or by students having to take reduced programs of studies during the regular academic year. The typical class load during the summer is one three-hour class per session.

Study-Work Program. It is important that the student adjust the course load to achieve a reasonable balance in study and work. During registration the student should confer with his/her adviser in planning the proper balance of study and work.

In determining an acceptable study-work program, the following will serve as a guide:

| <u>Course Load</u> | <u>Maximum Work Load</u> |
|--------------------|--------------------------|
| 16 hours | 16 hours |
| 14 hours | 20 hours |
| 12 hours | 26 hours |
| 10 hours | 32 hours |
| 8 hours | 38 hours |

ACADEMIC ADVISEMENT

Southern College is committed to assist every student in the area of academic advisement. Every full-time student is assigned an academic adviser from his/her major field and is required to consult with the adviser before registering for classes.

The responsibility of meeting graduation requirements belongs to the individual student. In planning their schedules all students should carefully follow the instructions in the catalog, recommendations of their advisers, and reports of academic progress issued from the Records Office. In the event of a discrepancy between an adviser's word and the catalog, final interpretation of graduation requirements rests with the Records and Advisement Office.

Seniors must file an application for graduation at the fall registration of their senior year. Previous to their senior year students should check periodically with the Records and Advisement office to determine whether they are meeting all curriculum requirements satisfactorily.

As early as possible in the process of curriculum planning, students who have chosen a career in teaching should consult the Teacher Certification Officer regarding the requirements for teaching credentials.

GRADING SYSTEM

Southern College does not have an institutional grading policy. Teachers use a variety of methods to evaluate students' performance, but the grades they issue are defined as follows:

- A Superior;** the student demonstrates exceptional capability in handling course material
- B Above average;** the student's demonstrated capability in handling course material exceeds the expectation of the teacher
- C Average;** the student demonstrates a satisfactory grasp of course material which the instructor intends students to learn in the class
- D Below average;** the student's demonstrated ability to deal with the course material is less than the teacher intends students to learn
- F Failing;** the student does not demonstrate sufficient capability with the course material to merit a passing grade
- W Withdrew from the class;** is not calculated in the GPA
- WF Withdrew Failing;** calculated as an "F" in the GPA
- AU Audit;** no credit
- I Incomplete;** is not calculated in the GPA

- IP In Progress;** a temporary passing grade for interrupted coursework still in progress.; is not calculated in the GPA
- P Pass;** is not calculated in the GPA

The Pass/Fail option is available only in Physical Education activity classes (PEAC). Students enrolling in these classes must make a decision either to receive a grade of Pass/Fail or a conventional grade before the final grades are submitted. The decision will be final.

A student may receive an "I" (Incomplete) because of illness or other unavoidable delay. Students who are eligible for an incomplete must secure from the Records Office the proper form and file the application with the teacher to receive an incomplete. There is a charge of \$7.50 for processing grades of incomplete. ~~Any incomplete which is not removed by the end of the following term (Fall, Spring) will automatically become an "F."~~ A teacher may assign a temporary "IP" (in progress) when an unavoidable problem prevents the issuance of a grade.

A course may be repeated before the student takes a more advanced course in the same field. Only the last grade will be counted on repeated courses. No course may be repeated more than once without permission from the Vice President for Academic Administration.

Mid-semester and semester grade reports are issued to the student and parents of students termed "dependent" for income tax purposes. Only semester grades are recorded on the student's permanent record. The following system of grading and grade point values is used:

| | | | |
|----|---------------------------|----|---------------------------|
| A | 4.0 grade points per hour | C | 2.0 grade points per hour |
| A- | 3.7 grade points per hour | C- | 1.7 grade points per hour |
| B+ | 3.3 grade points per hour | D+ | 1.3 grade points per hour |
| B | 3.0 grade points per hour | D | 1.0 grade points per hour |
| B- | 2.7 grade points per hour | D- | 0.7 grade points per hour |
| C+ | 2.3 grade points per hour | F | 0.0 grade points per hour |
| | | WF | 0.0 grade points per hour |

The grade point average is calculated by dividing the total number of grade points earned by the credit hours attempted.

STUDENT RECORDS

A student's record is regarded as confidential, and release of the record or of information contained therein is governed by regulations of the federal law on "Family Educational Rights and Privacy." Only directory information, such as a student's name, photograph, address, telephone listing, birthplace and date, major fields of study, participation in officially recognized activities and sports, dates of attendance, degrees and awards received, and the most recent previous educational agency or institution attended, may be released by the institution without consent of the student unless the student has asked SC to withhold such information.

Parents of students termed "dependent" for income tax purposes are entitled to access to the student's educational records. The law also provides for the release of information to college personnel who demonstrate a legitimate educational interest, other institutions engaged in

research (provided information is not revealed to any other parties), and certain federal and state government officials.

A student may inspect and review records and is entitled to challenge the content of records.

A more thorough explanation of records may be obtained from the Records Office. The Director of Records will further explain and clarify the Family Educational Rights and Privacy Act to students, parents, or interested parties upon request.

ACADEMIC HONESTY

Morally and spiritually, Southern College is dedicated to scholastic integrity. Consequently, both students and faculty are required to maintain high, ethical Christian levels of honesty.

Faculty Responsibilities:

1. Teachers must explain clearly the requirements for assignments, examinations, and projects, such as "open book," "take home," or "peer collaboration."

2. Teachers may assume "no collaboration" is the rule unless they state otherwise.

Student Responsibilities:

1. Students assume responsibility to avoid plagiarism by learning the proper procedures for acknowledging borrowed wording, information, or ideas. Otherwise students might innocently misrepresent others' material as their own.

2. Students unfamiliar with procedures for citing sources should confer with their teachers.

3. Students are to assume that all course work is "no collaboration" unless stated otherwise by the teacher.

Departmental Policies:

Some departments, because of the nature of their programs, have additional honesty policies which have the same force as those published here. Such policies will be presented to students before implementation.

Procedures for Handling Academic Dishonesty:

1. When a teacher suspects academic dishonesty in some form, such as cheating or plagiarizing, the teacher must first confront the student with the dishonesty. If the student and teacher cannot resolve the situation, or if the student's grade will be affected, then the Vice President for Academic Administration must be consulted.

2. In established instances of academic dishonesty, the usual procedures for the teacher to follow will be to:

- a. Give the student a failing grade on the exam, assignment or project if the magnitude of either is not sufficient for failing the class.
- b. Give the student a failing grade in the class if failing the exam, assignment or project would constitute failing the class. The teacher will then write up the incident and state the penalty administered, giving a copy to both the Vice President for Academic Administration and the student.

3. Two incidents of academic dishonesty make a student eligible to be dismissed from college. However, the student may then appeal the action through the established appeal procedures spelled out in the "Grievance Procedure" section of this CATALOG.

ACADEMIC PROBATION AND DISMISSAL

Any student whose GPA does not meet the criteria for graduation is on academic probation. The following are four categories of students who are on academic probation:

1. Students whose Southern College or cumulative GPA falls below 2.00. They are not eligible to hold office in any student organization.
2. Entering freshmen whose high school GPA is below 2.00 or if their composite ACT score is less than 18.
3. Transfer students whose GPA is less than 2.00.
4. Students in baccalaureate programs completing their sophomore year with a GPA in their major field less than the level required for graduation. For most degrees the institutional graduation requirement is 2.25, but some programs may designate a higher GPA.

Students on academic probation are allowed to remain in school but must demonstrate progressive improvement to meet graduation requirements.

Candidates for a baccalaureate degree must achieve a minimum GPA of 1.95 before beginning their final 30 hours. Candidates for an associate degree must have a GPA of 1.95 before beginning their final year. Students in one-year certificate programs must have a GPA of 2.00 before beginning their final semester.

Students are subject to academic dismissal if their Southern College or cumulative GPA does not reach the levels indicated in the preceding paragraph or the levels in the following table:

| <i>Semester Hours Attempted</i> | <i>G.P.A./Subject to Dismissal</i> |
|---------------------------------|------------------------------------|
| 6 - 48 | 1.50 |
| 49 - 64 | 1.65 |
| 65 - 80 | 1.75 |
| 81 - 93 | 1.85 |
| 94 - 116 | 1.95 |
| 117 - up | 2.00 |

At the end of each semester the Academic Review Committee reviews the records of students who are subject to dismissal and the Vice President for Academic Administration will notify students in writing whether or not they may continue. A student academically dismissed may be readmitted only after demonstrating maturity and motivation for a college career. The dismissed student may be required to complete successfully at least one term of college-level courses at another institution prior to readmission at Southern College.

Students receiving financial aid must also meet an academic progress policy set by the federal government. For further explanation see pages 241 and 242, "Southern College Academic Progress for Federal and Institutional Student Financial Aid."

RIGHT OF PETITION

Students who believe there is a valid reason for requesting variance from or exception to an academic policy stated in the CATALOG may make a petition to the Vice President for Academic Administration for consideration of their case after obtaining the advice and signature of the department chair of their major. The petition must contain a statement of the request and supporting reasons. Students will be notified in writing by the Vice President for Academic Administration of the action on petitions within five working days. Petition forms are available from the Records Office.

GRIEVANCE PROCEDURE

Students who believe that their academic rights have been infringed upon or that they have been treated unjustly with respect to their academic program are entitled to a fair and impartial consideration of their cases. They should do the following to effect a solution:

1. Present the case to the teacher or teachers concerned.
2. If necessary, discuss the problem with the department chair.
3. If agreement is not reached at this level, submit the matter to the Vice President for Academic Administration.
4. Finally, ask for a review of the case by the Grievance Committee, chaired by the Vice President for Academic Administration or his designee and including three other faculty members and two students selected by the Academic Affairs Committee. Both the student and the teacher involved in the case are entitled to appear before the committee or to present a written statement of the case. The decision of the committee shall be presented in writing to the individuals involved within three days of the committee meeting unless a later time is agreed upon by both parties. The decision of the committee is binding and will be implemented by the teacher involved or the Vice President for Academic Administration.

ABSENCES

Class. Attendance at class and laboratory appointments is expected. Teachers prepare an absence policy for each class, which includes an explanation of penalties, if any, for absences, and the procedure for making up work, if such is allowed. It is the responsibility of teachers to publish their policies for each class at the beginning of each semester, but it is the students' responsibility to familiarize themselves with the practices of each teacher from whom they are taking classes. Generally speaking, teachers will not excuse absences for reasons other than illness, authorized school trips, or emergencies beyond the students' control.

Students are not penalized if they incur absences while participating in school-authorized activities, but they are held responsible for work they miss and it is their responsibility to initiate arrangements to make up their assignments. One and one-half absences are given for missing a 75-minute class, two for missing a 100-minute class, etc.

Examination. Because of problems concerning time, expense and fairness, final examinations will be taken as scheduled in the official examinations schedule. In the case of illness verified by Student Health Service or a physician, death in the immediate family, three examinations scheduled consecutively in one day, or four or more examinations scheduled

in one day, a final exam may be rescheduled upon approval by the teacher and the Vice President for Academic Administration. The rescheduled examination will be given at a time convenient to the teacher.

When examinations are rescheduled because of three scheduled consecutively in one day or four in one day, the last examination of the day will normally be the one rescheduled. Examinations rescheduled for any reason other than those listed above, may require a fee of \$63 per examination. All rescheduling requests will be made on a form available at the office of the Vice President for Academic Administration.

Assembly. Assemblies are held each Thursday at 11:00 a.m. During weeks of spiritual emphasis, assemblies are held on Tuesday as well. Occasionally, assemblies will be held in the evening or may begin at 10:30 a.m. on Thursday. All students are required to attend 16 assemblies each semester. Failure to meet this assembly requirement may result in suspension of registration. Exceptions to the assembly attendance requirement are made by the Office of Student Services only for legitimate direct work or class conflicts with scheduled assemblies. Any excuses for absences from assembly must be approved by the Vice President for Student Services.

A special series of orientation assemblies is scheduled during the fourth summer session.

LIMITATIONS ON CLASS ATTENDANCE

Classes at Southern College are open to registered students only. Information disseminated in the classroom or other places of learning is the primary product that the college sells, hence visitors may not enter such gatherings unless they are official guests of the institution with legitimate business in a classroom or have the permission of the instructor. Visitors who attend classes may not engage in the discussions of a class unless invited to do so.

Teachers and the institution reserve the right to remove legitimate students from classes if their behavior threatens the purposes of the class by exceeding the bounds of normal academic freedom.

Teachers conducting extension classes from other institutions on the Southern College campus share the rights spelled out by this policy.

WAIVER EXAMINATIONS

Upon the approval of the department chair and the Vice President for Academic Administration, students may obtain a waiver of curricular requirements by successfully completing a comprehensive examination—written, oral, manipulative, or otherwise, as determined by the department involved. A fee of \$48 per examination is charged.

ENGLISH LANGUAGE STUDY

Southern College does not offer a total program in English as a Second Language, but maintains course work for a limited number of foreign students whose English language skills are marginally below the official admission level of a TOEFL score of 550. For details, see the Admissions and English Department sections of the Catalog.

NONTRADITIONAL COLLEGE CREDIT

In addition to credit earned in the traditional classroom setting, Southern College accepts credit earned by two other means—challenge examinations and correspondence courses.

The goals and objectives of the college emphasize not only facts and concepts but also values and attitudes which are not easily transmitted through correspondence courses or measured by examinations. These values and attitudes can best be developed by the student's interacting over a period of time with peers and teachers committed to moral excellence, critical thinking, and the pursuit of truth. For this reason, most college credits should be earned through class participation. However, the college will permit a maximum of one-fourth of the credit required for a given degree to be earned by these nontraditional means.

College Credit by Examination. The college recognizes three types of examinations for credit: challenge examinations prepared by a department which must be passed at "B" level or above, approved College Level Examination Program (CLEP) subject examinations which must be passed at the sixty-fifth percentile or above, and the Advanced Placement Examinations which must be passed with a score of three or better.

Not all classes listed in the catalog are open to challenge examinations. Students must obtain clearance from the department chair for the class they propose to challenge before petitioning to earn credit by examination. Students must also furnish evidence of adequate preparation to challenge a class before the department chair assigns a teacher to prepare a challenge examination. A student may challenge a given course by examination only once. No CLEP or challenge exam may be attempted after the student has been enrolled in that course beyond the second week of a semester. **No course may be challenged as part of the last thirty hours of any degree.** Grades are recorded for departmental challenge examinations and scaled scores are recorded for nationally normed examinations. Permission to take a challenge examination while in residence must be obtained from both the department chair and the Vice President for Academic Administration.

Students may earn a maximum of twelve hours of credit by examination in courses that do not appear in the college catalog if the evaluating tests are approved by the Academic Affairs Committee.

Credit for challenge and/or validation examinations will not be placed on a student's permanent record and is, therefore, not transferable until that student has successfully completed twelve semester hours in residence at Southern College.

Fees charged for challenge examination and credit are listed under "Special Fees and Charges" in the financial section of this CATALOG. Additional information concerning challenge examinations may be obtained from the Records Office or the Counseling and Testing Center.

Correspondence. A maximum of twelve semester hours of correspondence or extension credit may apply toward a baccalaureate degree program and eight hours toward an associate degree.

Griggs University, a department of Home Study International, Washington, D.C., is the officially recognized correspondence school. Southern College recommends Home Study International for those students needing correspondence credit and accepts all such credits when the study

program is approved by the college prior to enrollment. The college accepts credits from correspondence schools which are accredited by NUCEA (National University Continuing Education Association) on the basis that credits are accepted from other regionally accredited colleges.

A student will be permitted to carry correspondence work while in residence only if the required course is unobtainable at the college. Correspondence courses, whether taken while in residence or during the summer, must be approved in advance by the college.

Correspondence work may not apply on the upper division requirements of the major or minor. A minimum grade of "B" must be earned to apply on the lower division requirements for a major. A course in which the student earned a grade of "D" or "F" while in residence may not be repeated by correspondence. No correspondence credit will be entered on the student's record until s/he has earned a minimum of twelve hours in residence with an average of at least "C." Official transcripts must be in the Records Office before a diploma will be ordered. The graduation date will be the last day of the month after the official transcript is received.

TRANSIENT STUDENT

A Southern College student acquires transient student status when s/he is granted permission through the Southern College Records Office to enroll for automatically transferrable credit at another accredited institution. The credit that students may transfer must meet Southern College criteria for transfer credit and residence requirements.

To receive transient status, a student must:

1. have completed a minimum of twelve hours in residence at Southern College and
2. be enrolled simultaneously at Southern College for a minimum of three hours of class credit. (This condition does not apply to summer classes.)

Students may not receive transient status for more than one semester during which the amount of transferrable credit exceeds the amount of simultaneous credit earned at Southern College.

EXTENSION CLASSES

Extension classes are college classes offered on the campuses of Seventh-day Adventist academies in the Southern Union as an opportunity for seniors to earn college credit in skills areas that will fulfill part of the General Education requirements at Southern College. (See "Extension Classes," page 12, for admission criteria.) The classes that Southern College accepts are:

| | | |
|----------|---------------------|---------|
| ENGL 101 | College Composition | 3 hours |
| MATH 120 | College Algebra | 3 hours |
| MATH 121 | Trigonometry | 2 hours |

The extension classes must duplicate as nearly as possible their college counterparts in content, degree of difficulty, testing, and grading. Students who successfully complete any of these classes will receive credit in Area A of the General Education requirements. Instructors are academy teachers who are qualified with appropriate credentials and experience.

CONTINUING EDUCATION

Southern College makes continuing education credit available through the Records and Advisement Office. Sponsors of organizations wishing to offer Southern College continuing education certificates must complete the following steps:

1. Secure approval of the program by
 - a. applying at the Records and Advisement Office at least two weeks before conducting the workshop/seminar/conference and
 - b. submitting with their application the topic of the presentation, an outline of the presentation, and the name of the presenter(s) with evidence credentials.
2. File an evaluation of the workshop/seminar/conference following the presentation. The college will furnish evaluation forms.
3. Participants in continuing education events must pay institutional processing fees to receive their certificates.

TRANSCRIPTS

Students may obtain transcripts of their academic record upon a written request to the Office of Records and Advisement. A \$5 fee will be charged for all transcripts requiring one-day services and individual requests requiring an excess of more than five transcripts. Telephone requests from students, and telephone and written requests from someone on their behalf cannot be honored.

A student may receive an unofficial transcript for evaluative purposes by applying in person at the Records Office. Official transcripts given directly to a student will be stamped "Student Copy." No transcript will be issued for a student whose account is not paid in full or who is delinquent in payment of student loans. For further clarification regarding transcripts, diplomas, and test scores see page 235.

SEQUENCE OF COURSES

A student may not receive credit for a course which is a prerequisite to a course for which s/he has already received credit.

COURSE NUMBERS

Each course number consists of three figures as follows:

HIST 354. Latin America (C-1), (W)**3 hours**

The first numeral indicates class year status as follows:

- 0—Developmental (no credit)
- 1—freshman level (lower division)
- 2—sophomore level (lower division)
- 3—junior level (upper division)
- 4—senior level (upper division)

Within a given 100 sequence there is no significance in one course number being higher than another. For instance, 265 does not necessarily mean that the course is on a higher level than 235.

Course numbers separated by a hyphen are two-semester courses in which credit for the first course is a prerequisite to the second [e.g., ENGL 101-102. College Composition]. However, credit is given for the first semester when taken alone.

Course numbers that stand alone represent courses of one semester which are complete units. Course numbers separated by a comma [e.g., HIST 154, 155. American History and Institutions] represent complete units, either one of which is counted for graduation without reference to sequence.

Designation in brackets following course titles, [e.g., MATH 103. Survey of Mathematics (A-2)] indicates the General Education area and sub-area that the class fulfills. Classes designated with a "(W)" are writing classes for General Education credit.

Students may earn credit for a cross-listed course from only one department [e.g. HIST 356 and SOCI 356].

COGNATE COURSES

Required courses related to the major which are not a part of the major are called cognate courses [e.g., students majoring in Nursing are required to take Microbiology as a cognate course].

| Prefix | Subject Area | Department Section of Catalog |
|---------------|---------------------------------|--------------------------------------|
| ACCT | Accounting | Business Administration |
| ART | Art | Art |
| BIOL | Biology | Biology |
| BMKT | Marketing | Business Administration |
| BUAD | Business Administration | Business Administration |
| CHEM | Chemistry | Chemistry |
| COOP | Cooperative Education | Nondepartmental Courses |
| CPTE | Computer Technology | Computer Science/Technology |
| CPTR | Computer Science | Computer Science/Technology |
| ECON | Economics | Business Administration |
| EDUC | Education | Education/Psychology |
| ENGL | English | English/Speech |
| ENGR | Engineering | Engineering Studies |
| ERSC | Earth Science | Physics |
| FDNT | Nutrition | Nondepartmental Courses |
| FREN | French | Modern Languages |
| GEOG | Geography | History |
| GRMN | German | Modern Languages |
| HIST | History | History |
| HLED | Health Education | Health, Physical Ed, Recreation |
| HMNT | Humanities | Nondepartmental Courses |
| HPER | Health, Physical Ed, Recreation | Health, Physical Ed, Recreation |
| JOUR | Journalism | Journalism/Communication |
| LIBR | Library | Nondepartmental Courses |
| LTCA | Long-Term Care Admin | Business Administration |
| MATH | Mathematics | Mathematics |
| MDTC | Medical Technology | Allied Health |
| MUCH | Church Music | Music |
| MUCT | Music Theory | Music |
| MUED | Music Education | Music |
| MUHL | Music History | Music |
| MUPF | Applied Music | Music |
| NOND | Nondepartmental | Nondepartmental Courses |
| NRSG | Nursing | Nursing |
| OFAD | Office Administration | Business Administration |
| PEAC | General Ed Activity Classes | Health, Physical Ed, Recreation |
| PETH | Physical Education Theory | Health, Physical Ed, Recreation |
| PHYS | Physics | Physics |
| PLSC | Political Science | History |
| PREL | Public Relations | Journalism/Communication |
| PSYC | Psychology | Education/Psychology |
| RELB | Biblical Studies | Religion |
| RELL | Biblical Languages | Religion |
| RELP | Professional Training | Religion |
| RELT | Religion and Theology | Religion |
| SOCI | Sociology | Behavioral Science |
| SOCW | Social Work | Behavioral Science |
| SPAN | Spanish | Modern Languages |
| SPCH | Speech | English/Speech |
| TECH | Technology | Industrial Technology |

ALLIED HEALTH

Chair: Stephen A. Nyirady

Faculty: Joyce Azevedo, David Ekkens, Henry Kuhlman

Adjunct Faculty: Jon Lechler

Medical Technology: R. A. Ramkissoon, Patricia Rogers

The Allied Health Professions are rapidly growing areas of specialization within the health care industry. Job openings are plentiful and pay scales are comparable to other professionals in health care. The department offers a B.S. degree in Medical Technology and A.S. degrees in a number of Allied Health fields (listed on page 50).

ASSESSMENT

The Allied Health Department at Southern College is organized to coordinate the advising of students who require prerequisite courses for entrance into a variety of clinical programs in the medical, dental, and health professions. The programs in this department vary extensively depending on the particular health career and the requirements of the specific schools which offer the clinical programs. Southern College continually monitors the requirements of these clinical programs and modifies its preprofessional curricula to meet the changes when they are made. Continual assessment is made essentially by the advisers in the department who measure their effectiveness by their success in structuring programs to meet individual student needs and to meet requirements of the professional school the student will be transferring to. The entrance rate of students into professional programs is also used to assess adequacy of class offerings and program requirements.

BACHELOR OF SCIENCE IN MEDICAL TECHNOLOGY

Adviser: Henry Kuhlman

The Bachelor of Science degree with a major in medical technology consists of three years of prescribed study at Southern College and a 12- to 13-month senior year in a hospital-based medical technology program accredited by the Committee on Allied Health Education and Accreditation (CAHEA) of the American Medical Association. The hospital program affiliated with Southern College is Florida Hospital Medical Center. Internship in other CAHEA-accredited programs requires prior college approval.

The Medical Technology degree qualifies a person to take a number of national certifying examinations, including those offered by the Board of Registry of the American Society of Clinical Pathologists (ASCP) and the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). Certified laboratory professionals work in hospitals, clinics, physicians' offices, public health agencies, private laboratories, pharmaceutical firms, and research institutions.

The curriculum prescribed by Southern College is designed to meet the requirements of the college and of CAHEA. Hospitals with clinical programs may have additional requirements. Students should consult the brochures or advisers of the specific hospitals for those requirements.

Occasionally pre dental students, pre-medical students, and graduating seniors in biology or chemistry may wish to become certified Medical Technologists. This is possible if the student plans courses to fulfill the requirements of the college and the hospital program.

During the fall semester of the third year, students must apply for admission to an approved hospital-based medical technology program. Acceptance of the individual student to the senior year program is determined by the hospital. To be eligible for admission, a student must complete all of the college course requirements prior to beginning the clinical year. The overall grade point average must be acceptable to the college for graduation. Most hospital programs do not accept students with less than a 2.75 cumulative average on a 4.0 system. Although hospital acceptances are granted during the junior year, they are conditional, pending satisfactory completion of the stated admission criteria.

Written information about the affiliated hospital-based medical technology program is available through the college medical technology adviser. Acceptance criteria, pre-clinical course requirements, application procedures, tuition for the senior year, and program formats may vary at each approved hospital. Southern College charges a \$55 recording fee for the clinical year.

● **MAJOR** 2

MDTC 225. Introduction to Medical Technology **2 hours**

This course is designed to acquaint prospective medical technologists with the profession. The history and standards of medical technology and employment opportunities will be surveyed. Elementary clinical laboratory procedures will be taught and laboratory tours will be conducted.

● **COGNATES** 42

- BIOL including 151-152, 315, 330, 340 17
- *CHEM including 151-152, 311-314, 16
- CPTR 3
- MATH 120 3
- BUAD 334 3
- *These must be courses which could apply to a Chemistry major.

GENERAL EDUCATION REQUIREMENTS 35

- AREA A** 1. ENGL 101, 102 6
- 2. (See Cognates)
- AREA B** Religion 9
- AREA C** History, Political Science, and Economics 6
- AREA D** Language, Literature, and Fine Arts, (include SPCH 135) 6
- AREA E** (See Cognates)
- AREA F** Behavioral, Family, or Health Sciences 3
- AREA G** Activity Skills, to include PEAC 225 and
 a computer course, 3 hours 5

● **NOTE:** Grades of C- and better are required in the major and cognates. A minimum GPA of 2.25 must be earned on the major and cognates.

Twenty hours of upper division credit, including two writing (W) courses are required. One (W) course must be in a cognate area and one in a noncognate area.

ELECTIVES 14

Recommendations include:

BIOL 316, 415, 417, 418

CHEM 315, 321, 323

MATH 215

PHYS 211-212, 213-214

TOTAL PRE-CLINICAL CREDIT HOURS 93

HOSPITAL CLINICAL (SENIOR) YEAR Variable

Individual approved hospital programs should be consulted for their specific courses and credits. Approximately forty credit hours are given in the twelve to fifteen-month clinical programs. Courses taught in approved programs include:

Introduction to Medical Laboratory Science, Urinalysis, Hematology, Hemostasis, Immunology, Immunochemistry, Clinical Microbiology, Clinical Mycology, Clinical Parasitology, Clinical Biochemistry, Instrumentation, Research.

**Sample Freshman Year Sequence
B.S. Medical Technology**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|-----------------------|--------------|---------------------|---------------------|--------------|
| BIOL 151 | *General Biology | 4 | BIOL 152 | *General Biology | 4 |
| CHEM 151 | *General Chemistry | 4 | CHEM 152 | *General Chemistry | 4 |
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| PEAC 225 | Conditioning | 1 | | Area C-1, History | 3 |
| | Area C-1, History | 3 | | Electives | 2 |
| | Area G-1/3 Act Skills | 1 | | | <u>16</u> |
| | | <u>16</u> | | | |

*An asterisk in front of a subject indicates Med-Tech requirement.

20 upper division credits, make-up of any admissions deficiencies, and 93 total hours must be completed prior to the clinical year.

ASSOCIATE OF SCIENCE IN ALLIED HEALTH

The Associate of Science degree in Allied Health Professions prepares the student for admission to professional programs at Loma Linda University, Andrews University, or other universities. Admission to any professional school is dependent on meeting the GPA and prerequisite requirements of the individual school. Students should consult the bulletin of the school of their choice to ascertain the entrance requirements.

Students who plan to graduate from Southern College with an Associate Degree in Allied Health must meet the A.S. degree general education requirements of SC as well as the entrance requirements of the clinical program to which they will be applying.

Applications for transfer to the junior year of colleges offering Allied Health programs must be made early in the second semester of the final year at Southern College. The lowest acceptable grade for courses to be transferred is C. A minimum grade point average of 2.00 is required for the Associate of Science degree at Southern College, but grade point averages between 2.50 and 3.50 are considered minimal for entrance to the junior year of most clinical Allied Health programs. Some programs require the Allied Health Professions Admissions Test (AHPAT).

The major Allied health areas in which a two year Associate Degree may be earned at Southern College are:

| | |
|-----------------------------|-------------------------------|
| pre-Cytotechnology | pre-Physical Therapy |
| pre-Dental Hygiene | pre-Physician Assistant |
| pre-Nutrition and Dietetics | pre-Speech Language Pathology |
| pre-Occupational Therapy | & Audiology |
| pre-Surgeon's Assistant | |

The department also offers one-year curricula to meet requirements for entrance into the following Allied Health degree programs at Loma Linda University and most other university programs:

- Occupational Therapy Assistant (Associate in Science Degree)
- Physical Therapy Assistant (Associate in Science Degree)
- Radiation Technology (Associate and Bachelor of Science Degrees)
- Respiratory Therapy (Associate and Bachelor of Science Degrees)
- Surgical Technology (Associate in Science Degree)

For details on these or other programs not listed here and for Southern College curricula for entrance into them write:

Chair, Allied Health Department
Southern College of SDA
P.O. Box 370
Collegedale, TN 37315-0370

PRE-CYTOTECHNOLOGY

Cytotechnologists are specially trained laboratory technologists who work with pathologists to detect changes in body cells that may be important in the early diagnosis of cancer and other diseases. Using special techniques, cytotechnologists prepare cellular samples for study under the microscope and assist in the diagnosis of disease by examination of the samples. Using the findings of cytotechnologists, a physician is then able, in many instances, to diagnose cancer and other diseases even before they can be detected by other methods. Most cytotechnologists work in hospitals or in private laboratories, while some prefer to work on research projects or to teach.

Adviser: Stephen A. Nyirady

The program below meets admission requirements for Loma Linda University and can be modified to meet the requirements of other schools.

Area A ENGL 101-102; MATH 120
Area B Religion, 6 hours
Area C History, 3 hours
Area D Foreign Lang/Lit/Fine Arts, 3 hours
Area E BIOL 101-102, 151-152, 225; CHEM 111-112, 113-114
Area F HLED 173; SOCI 150; Psychology/Sociology, 6 hours*
Area G PEAC, 2 hours to include PEAC 225; Computer Course, 1 hour
Electives to make a total of 64 hours.

*Two areas minimum; may be substituted by a course in Economics, Geography, or Political Science.

Sample Sequence
A.S. Pre-Cytotechnology

| YEAR 1 | | Semester | | YEAR 2 | | Semester | |
|--------------|------------------------|----------|-----|--------------|--------------------------------------|----------|-----|
| | | 1st | 2nd | | | 1st | 2nd |
| BIOL 101-102 | Anatomy & Phys | 3 | 3 | BIOL 151-152 | General Biology | 4 | 4 |
| CHEM 111-112 | Survey of Chemistry | 3 | 3 | BIOL 225 | Basic Microbiology | | 4 |
| CHEM 113-114 | Survey of Chem Lab | 1 | 1 | HLED 173 | Health & Life | 2 | |
| ENGL 101-102 | College Comp | 3 | 3 | PEAC 225 | Conditioning | 1 | |
| MATH 120 | Precalculus Algebra | 3 | | | Geog/Pol Sci/Econ/Psyc | 3 | 3 |
| PSYC 124 | Intro to Psychology | | | | Area B, Religion | 3 | |
| | OR | | 3 | | Area C-1, History | | 3 |
| PSYC 128 | Developmental Psyc | | | | Area G-2 CPTR Course | 1 | |
| SOCI 150 | Cultural Anthropology* | 3 | | | Area G-3, Rec Skills | 1 | |
| | Area B, Religion | | 3 | | Area D, Forgn Lang/ Lit/Fine Arts | | 3 |
| | | 16 | 16 | | | 16 | 16 |

NOTE: C is the lowest acceptable grade.

*SOCI 230 can be substituted for this course.

PRE-DENTAL HYGIENE

Dental hygienists provide preventative dental care and encourage patients to develop good oral hygiene skills. In addition to carrying out clinical responsibilities such as cleaning and scaling teeth, hygienists help patients develop and maintain good oral health by explaining the relationship between diet and oral health. Although most hygienists work with individual patients, some develop and promote community dental health programs. In addition to career opportunities within dental offices, dental hygienists apply their skills and knowledge in other career activities including office management, business administration, dental hygiene education, research and marketing of dental related equipment and materials.

Adviser: John Perumal

The program below meets admission requirements for Loma Linda University and can be modified to meet the requirements of other schools.

- Area A ENGL 101-102; Math*
- Area B Religion, 6 hours
- Area C History, 3 hours
- Area D Foreign Lang/Lit/Fine Arts, 6 hours; SPCH 135 or 136
- Area E BIOL 101-102, 225; CHEM 111-112, 113-114
- Area F HLED 173**; SOCI 125, 150; 6 additional hours of Psychology***
- Area G PEAC, 2 hours to include PEAC 225; Computer Course, 3 hours
- Electives to make a total of 64 hours

*MATH course of 100 level or above is required by Southern College of students with ACT math scores below 22.

**May be substituted by FDNT 125.

***May be substituted by a course in Economics, Geography, or Political Science.

Sample Sequence
A.S. Pre-Dental Hygiene

| YEAR 1 | | Semester | | YEAR 2 | | Semester | |
|--------------|------------------------|----------|-----|--------------|-----------------------|----------|-----|
| | | 1st | 2nd | | | 1st | 2nd |
| BIOL 101-102 | Anatomy & Physiology | 3 | 3 | BIOL 225 | Basic Microbiology | 4 | |
| ENGL 101-102 | College Composition | 3 | 3 | CHEM 111-112 | Survey of Chemistry | 3 | 3 |
| MATH 103 | Survey of Math* | | | CHEM 113-114 | Survey of Chem Lab | 1 | 1 |
| | OR | 3 | | HLED 173 | Health and Life** | 2 | |
| MATH 120 | Precalculus Algebra* | | | SOCI 150 | Cultural Anthro*** | 3 | |
| PEAC 225 | Conditioning | 1 | | SOCI 125 | Intro to Sociology | | 3 |
| SPCH 135 | Intro to Public Spkg | | | | Area B, Religion | | 3 |
| | OR | | 3 | | Area D, Forgn Lang/ | | |
| SPCH 136 | Interpersonal Comm | | | | Lit/Fine Arts | 3 | 3 |
| | Area B, Religion | | 3 | | Area G-2, CPTR Course | | 3 |
| | Hist/Pol Sci/Econ/Geog | 3 | | | | 16 | 16 |
| | Area G-3, PE Activity | | 1 | | | | |
| | Area C-1, History | | 3 | | | | |
| | Area F-1, Psychology | | 3 | | | | |
| | | 16 | 16 | | | | |

*MATH course of 100 level or above is required by Southern College of students with ACT math scores below 22.

**May be substituted by FDNT 125.

***SOCI 230 can be substituted for this course.

NOTE: C is the lowest acceptable grade.

PRE-NUTRITION AND DIETETICS

Dietitians and nutritionists use their knowledge of the principles of nutrition to help people develop healthy eating habits. Dietitians may be involved in setting up and supervising food service systems for institutions such as hospitals, prisons, and schools; and promote sound eating habits through education and research. Clinical dietitians provide nutritional services for patients in hospitals, nursing homes, clinics, or doctors' offices. Community dietitians counsel individuals and groups on nutritional practices designed to prevent disease and promote good health. Management dietitians are responsible for large scale meal planning and preparation in such places as hospitals, nursing homes, company cafeterias, and schools.

Adviser: Stephen A. Nyirady

The program below meets admission requirements for Loma Linda University and can be modified to meet the requirements of other schools.

Area A ENGL 101-102; Math*

Area B Religion, 6 hours

Area C History, 3 hours; Geography/Political Science, 3 hours

Area D SPCH 135; Foreign Lang/Literature/Fine Arts, 3 hours

Area E BIOL 101-102, 225; CHEM 151-152

Area F FDNT 125; HLED 173; PSYC 124; SOCI 125, 150

Area G PEAC, 2 hours to include PEAC 225; Computer Course, 3 hours

Required professional courses: Food Selection and Preparation, 3 hours; Meal Management, 3 hours. (Both courses are available at LLU in September, prior to Fall quarter.)

Electives to make a total of 64 hours.

*MATH course of 100 level or above is required by Southern College of students with ACT math scores below 22.

Sample Sequence
A.S. Pre-Nutrition and Dietetics

| <u>YEAR 1</u> | | <u>Semester</u> | | <u>YEAR 2</u> | | <u>Semester</u> | |
|---------------|-----------------------|-----------------|------------|---------------|--------------------------------------|-----------------|------------|
| | | <u>1st</u> | <u>2nd</u> | | | <u>1st</u> | <u>2nd</u> |
| BIOL 101-102 | Anatomy & Physiology | 3 | 3 | BIOL 225 | Basic Microbiology | | 4 |
| ENGL 101-102 | College Composition | 3 | 3 | CHEM 151-152 | General Chem | 4 | 4 |
| PEAC 225 | Conditioning | 1 | | PDNT 125 | Nutrition | 3 | |
| SOCI 125 | Intro to Sociology | 3 | | HLED 173 | Health and Life | | 2 |
| SPCH 135 | Intro to Public Spkg | | 3 | PSYC 124 | Intro to Psychology | | 3 |
| | Math Course* | 0-3 | | SOCI 150 | Cultural Anthropology**3 | | |
| | Area B, Religion | 3 | | | Area B, Religion | 3 | |
| | Area C-1, History | | 3 | | Area C, Geog/Pol Sci | 3 | |
| | Area G-2, CPTR Course | 3 | | | Area D, Forgn Lang/ Lit/Fine Arts | | 3 |
| | Area G-3, Rec Skills | | 1 | | | 16 | 16 |
| | Electives | 0-3 | | | | | |
| | | 16 | 16 | | | | |

*MATH course 100 level or above is required by Southern College of students with ACT math scores below 22.

**SOCI 230 may be substituted for this course.

NOTE: C is the lowest acceptable grade.

PRE-OCCUPATIONAL THERAPY

An occupational therapist works with people whose lives have been disrupted by physical injury or illness, developmental problems, the aging process, and social or psychological difficulties. Occupational therapists use selected educational, vocational and rehabilitative activities to help individuals reach the highest functional levels possible, become self reliant and build a balanced lifestyle of work and leisure.

Adviser: Stephen A. Nyirady

The program below meets admission requirements for Loma Linda University and can be modified to meet the requirements of other schools.

- Area A ENGL 101-102; MATH 215
 - Area B Religion, 6 hours
 - Area C History, 3 hours
 - Area D SPCH 135; Foreign Lang/Lit/Fine Arts, 3 hours
 - Area E BIOL 101-102; CHEM 111, 113; PHYS (with applications) 137, 138
 - Area F HLED 173*; PSYC 124, 128; SOCI 125, 150; Psychology/Sociology, 3 hours
 - Area G PEAC, 2 hours to include PEAC 225; Computer Course, 3 hours.
Recommended: ART 235 or TECH 154.
- Electives to make a total of 64 hours.

A minimum of 80 hours work experience (volunteer or as an employee) in an occupational therapy department is required.

*Waived if high school health course taken.

Sample Sequence
A.S. Pre-Occupational Therapy

| <u>YEAR 1</u> | | <u>Semester</u> | | <u>YEAR 2</u> | | <u>Semester</u> | |
|---------------|-----------------------|-----------------|------------|---------------|---------------------|-----------------|------------|
| | | <u>1st</u> | <u>2nd</u> | | | <u>1st</u> | <u>2nd</u> |
| BIOL 101-102 | Anatomy & Physiology | 3 | 3 | CHEM 111 | Survey of Chemistry | 3 | |
| ENGL 101-102 | College Composition | 3 | 3 | CHEM 113 | Survey of Chem Lab | 1 | |
| PSYC 124 | Intro to Psychology | 3 | | HLED 173 | Health & Life | 2 | |
| SOCI 125 | Intro to Sociology | 3 | | MATH 215 | Statistics | | 3 |
| SPCH 135 | Intro to Public Spkg | 3 | | PEAC 225 | Conditioning | 1 | |
| | Area B, Religion | 3 | | PHYS 137 | Intro to Physics | | 3 |
| | Area C-1, History | | 3 | PHYS 138 | Intro to Phys Appl | | 1 |
| | Area G-2, CPTR Course | 3 | | PSYC 128 | Developmental Psych | | 3 |
| | Area G-3, Rec Skills | | 1 | SOCI 150 | Cultural Anthro | 3 | |
| | Elective | | 1 | | Area B, Religion | | 3 |
| | | 16 | 16 | | Area D, Forgn Lang/ | | |
| | | | | | Lit/Fine Arts | | 3 |
| | | | | | Area F-1 or -2, | | |
| | | | | | Phys/Soci | 3 | |
| | | | | | Electives* | 3 | |
| | | | | | | 16 | 16 |

*ART 235 or TECH 154 recommended.
**SOCI 230 may be substituted for this course.
NOTE: C is the lowest acceptable grade.

PRE-PHYSICAL THERAPY

Physical therapists work to improve the mobility, relieve the pain, and prevent or limit the permanent disability of patients suffering from injuries or disease. Their patients include accident victims or handicapped individuals with such conditions as nerve injuries, amputations, low back pain, arthritis, and heart disease. Some physical therapists treat a wide variety of problems and others specialize in such areas as pediatrics, orthopedics, and sports physical therapy. The working environment of physical therapists varies from specially equipped facilities in hospitals or clinics to schools, private offices, and private homes.

Requirements for entrance to the junior year of a Physical Therapy course will depend on the college selected. Requirements for Andrews University and Loma Linda University are outlined below. Students who complete one of these programs will be awarded an Associate of Science degree by Southern College. Students planning to attend other colleges should contact them to obtain their requirements.

Adviser: David Ekkens
Program below meets Andrews University admission requirements.

- Area A ENGL 101-102; MATH 215
- Area B RELB or RELT, 3 hours; RELT 255 or 225
- Area C HIST 174 or 175; Geog/Political Science/Economics, 3 hours
- Area D SPCH 135; Fine Arts, 3 hours
- Area E BIOL 101-102 or BIOL 151-152, 225; CHEM 151-152; PHYS 211-212, PHYS 213-214
- Area F PSYC 124, 128
- Area G PEAC, 2 hours to include PEAC 225; CPTR 120
- Electives to make a minimum total of 64 hours

*HIST 154 required if not taken in high school.

Andrews University Admission and Degree Requirements: Andrews University requires 3.00 GPA in science prerequisites and total credits. C is the lowest acceptable grade for science and cognate courses. Also required is the Nelson-Denny Reading test and 80 hours of observation or work experience with a Registered Physical Therapist. This 80 hours must include at least 16 hours in each of two physical therapy settings plus 20 hours in a general acute care hospital. The settings to choose from are: home health agency, pediatric therapy, outpatient clinic, rehabilitation center, nursing home, and specialized clinic.

ANDREWS UNIVERSITY REQUIREMENTS

| <u>YEAR 1</u> | | <u>Semester</u> | | <u>YEAR 2</u> | | <u>Semester</u> | |
|---------------|-----------------------|-----------------|------------|---------------|------------------------|-----------------|------------|
| | | <u>1st</u> | <u>2nd</u> | | | <u>1st</u> | <u>2nd</u> |
| BIOL 101-102 | Anatomy & Physiology* | 3 | 3 | BIOL 225 | Basic Microbiology | 4 | |
| ENGL 101-102 | College Composition | 3 | 3 | CHEM 151-152 | General Chemistry | 4 | 4 |
| HIST 175 | World Civ** | 3 | | CPTR 120 | Computer Based Syst | 3 | |
| PEAC 225 | Conditioning | 1 | | MATH 215 | Statistics | | 3 |
| PSYC 124 | Intro to Psychology | 3 | | RELT 255 | Christian Beliefs | 3 | |
| PSYC 128 | Developmental Psych | | 3 | | or | | |
| SPCH 135 | Intro to Public Spkg | | 3 | RELT 225 | Last Day Events | | |
| | Area B, Religion | | 3 | | Area D-3, Music or | | |
| | Electives | 3 | 1 | | Art Appreciation*** | | 3 |
| | | 16 | 16 | | Area G-3, Rec Skills | 1 | |
| | | | | | Pol Sci, Geog, or Econ | | 3 |
| | | | | | Electives | 1 | 3 |
| | | | | | | 16 | 16 |

Note: A physics sequence with laboratory is required for entrance into the program. This is offered at Andrews University immediately preceding their first quarter. PHYS 211-212 and 213-214, 8 semester hours at SC, will fulfill this requirement.

*BIOL 151-152, General Biology, may be substituted.

**American History required only if not taken in high school.

***A two-semester sequence in a music organization may be substituted.

Program below meets Loma Linda University admission requirements.

- Area A ENGL 101-102; MATH 120, 215
- Area B Religion, 6 hours
- Area C HIST 174, 175, 154, or 155, 3 hours
- Area D Fine Arts* or Foreign Language or Literature, 3 hours; SPCH 135
- Area E BIOL 101-102 or 151-152, 225; CHEM 151-152; PHYS 137, 138
- Area F HLED 173; PSYC 124, 128; SOCI 150; Psychology/Sociology, 3 hours
- Area G PEAC, 2 hours to include PEAC 225; CPTR 120
- Electives to make a minimum total of 66 hours

Loma Linda University Admission and Degree Requirements: Loma Linda University requires a 3.00 GPA in science prerequisites and for total credits. Also required is a minimum of 80 hours work experience (volunteer or employee) in a physical therapy department, 20 of which are in a general, acute-care hospital.

*MUHL 115 or ART 218 may be selected.

LOMA LINDA UNIVERSITY REQUIREMENTS

| YEAR 1 | | Semester | | YEAR 2 | | Semester | |
|---------------|-----------------------|----------|-----|--------------|---------------------|----------|-----|
| | | 1st | 2nd | | | 1st | 2nd |
| BIOL 101-102 | Anatomy & Physiology* | 3 | 3 | BIOL 225 | Basic Microbiology | 4 | |
| ENGL 101-102 | College Composition | 3 | 3 | CHEM 151-152 | General Chemistry | 4 | 4 |
| MATH 120 | Precalculus Algebra | 3 | | CPTR 120 | Computer Based Syst | | 3 |
| PEAC 225 | Conditioning | 1 | | HLED 173 | Health & Life | 2 | |
| PSYC 124 | Introduction to Psych | | 3 | MATH 215 | Statistics | | 3 |
| PSYC 128 | Developmental Psych | | 3 | PHYS 137 | Intro to Physics | 3 | |
| SOCI 150 | Cultural Anthro*** | 3 | | PHYS 138 | With Applications | 1 | |
| SPCH 135 | Intro to Public Spk | | 3 | | Area B, Religion | | 3 |
| | Area B, Religion | 3 | | | Area D, Fine Arts** | | 3 |
| | Area G-3, Rec Skills | | 1 | | Psy/Soci | 3 | |
| | | 16 | 16 | | | 17 | 16 |
| SUMMER | | | | | | | |
| | Area C, History | | 3 | | | | |

*BIOL 151-152, General Biology, may be substituted.

**MUHL 115 or ART 218 recommended.

***SOCI 230 may be substituted for this course.

NOTE: A total of 66 semester hours is required for admission. Other entrance requirements are the Allied Health Professions Admissions Test and a minimum of 80 hours work experience (volunteer or as an employee) in a physical therapy department. C is the lowest acceptable grade for a course.

NOTE: PHYS 137 and 138, 4 semester hours at SC, fulfills the requirement of physics sequence with laboratory.

PRE-PHYSICIAN ASSISTANT

Physician assistants are trained to perform many of the essential tasks involved in patient care. They take medical histories, perform physical evaluations, order laboratory tests, make preliminary diagnoses, prescribe appropriate treatments, and recommend medications and drug therapies. They also treat minor problems such as lacerations, abrasions, and burns. Physician assistants work in a variety of practice settings and specialty areas. The most important practice setting is in a physician's office. They also work at hospitals and clinics. Specialties using PA's are family practice, internal medicine, general and thoracic surgery, emergency medicine, pediatrics, and various medical subspecialties.

Adviser: Stephen A. Nyirady

Program below meets requirements for Union College and can be modified to meet the requirements of other schools.

AREA A ENGL 101-102; MATH 215

AREA B RELT 225, RELT 373

AREA C HIST 174 or 175

AREA D SPCH 135; Literature, 3 hours

AREA E BIOL 101-102, 225; CHEM 111-112, 113-114

AREA F PSYC 124, 128

AREA G PEAC 225; HLED 173; Computer Course, 3 hours

Electives to make a total of 64 hours

Work or volunteer service in a health care setting and a minimum cumulative GPA of 2.5 are required.

**Sample Sequence of Courses
To Meet Union College Requirements
A.S. Pre-Physician Assistant**

| <u>YEAR 1</u> | | <u>Semester</u> | | <u>YEAR 2</u> | | <u>Semester</u> | |
|---------------|----------------------|-----------------|------------|---------------|---------------------|-----------------|------------|
| | | <u>1st</u> | <u>2nd</u> | | | <u>1st</u> | <u>2nd</u> |
| BIOL 101-102 | Anatomy & Physiology | 3 | 3 | BIOL 225 | Basic Microbiology | 4 | |
| ENGL 101-102 | College Composition | 3 | 3 | CHEM 111-112 | Survey of Chemistry | 3 | 3 |
| HIST 174 | World Civ | 3 | | CHEM 113-114 | Survey of Chem Lab | 1 | 1 |
| HLED 174 | Health and Life | | 2 | MATH 215 | Statistics | | 3 |
| PEAC 225 | Conditioning | | 1 | PSYC 128 | Developmental Psych | 3 | |
| PSYC 124 | Intro to Psychology | 3 | | RELT 373 | Christian Ethics | | 3 |
| RELB 255 | Christian Beliefs | | 3 | | Computer Course | | 3 |
| SPCH 135 | Intro to Public Spkg | 3 | | | D-2, Literature | 3 | |
| | Electives | <u>1</u> | <u>4</u> | | Electives | <u>2</u> | <u>3</u> |
| | | <u>16</u> | <u>16</u> | | | <u>16</u> | <u>16</u> |

The program below meets admission requirements for Trevecca Nazarene University, Nashville, and can be modified to meet requirements of other schools.

- Area A ENGL 101-102; MATH 103 or 120
- Area B RELB 125, RELT 255
- Area C HIST 174, 175
- Area D SPCH 135, ENGL 216
- Area E BIOL 101-102, 225; CHEM 151-152
- Area F PSYC 124, 128
- Area G PEAC 225; Computer Course, 3 hours
- Electives to make a total of 64 hours.

NOTE: A class in Medical Terminology is highly recommended.

Work or volunteer service in a health care setting and a minimum cumulative GPA of 3.25 are required.

**Sample Sequence
A.S. Pre-Physician Assistant**

| <u>YEAR 1</u> | | <u>Semester</u> | | <u>YEAR 2</u> | | <u>Semester</u> | |
|---------------|----------------------|-----------------|------------|---------------|----------------------|-----------------|------------|
| | | <u>1st</u> | <u>2nd</u> | | | <u>1st</u> | <u>2nd</u> |
| BIOL 101-102 | Anatomy & Physiology | 3 | 3 | BIOL 225 | Basic Microbiology | 4 | |
| CHEM 151-152 | General Chemistry | 4 | 4 | ENGL 216 | Approaches to Lit | 3 | |
| ENGL 101-102 | College Composition | 3 | 3 | HIST 174/175 | World Civ | 3 | 3 |
| PEAC 225 | Conditioning | | 1 | MATH 103/120 | Surv Math/Coll Alg | | 3 |
| PSYC 124 | Intro to Psychology | 3 | | PSYC 128 | Developmental Psych | 3 | |
| RELB 125 | Teachings of Jesus | | 3 | RELT 255 | Christian Beliefs | | 3 |
| | Electives | <u>3</u> | <u>2</u> | SPCH 135 | Intro to Public Spkg | | 3 |
| | | <u>16</u> | <u>16</u> | | Computer Course | | 3 |
| | | | | | Electives | <u>3</u> | <u>1</u> |
| | | | | | | <u>16</u> | <u>16</u> |

PRE-SPEECH LANGUAGE PATHOLOGY & AUDIOLOGY

Speech language pathologists identify, assess, and treat persons with speech and language disorders while audiologists assess and treat hearing impaired individuals. Because both occupations are concerned with communication, individuals competent in one area must be familiar with the other. The duties of speech language pathologists and audiologists vary. Most, however, provide direct clinical services to individuals with communication disorders. In speech, language, and hearing clinics they may independently develop and implement a treatment program. In private medical centers and other facilities, they may be part of a team that develops and executes a treatment plan. In schools they may help administrators develop individual or group programs, counsel parents on prevention of hearing disorders, and assist teachers with classroom activities.

Adviser: Stephen A. Nyirady

The program below meets admission requirements for Loma Linda University and can be modified to meet the requirements of other schools.

| | |
|--|---|
| Area A | ENGL 101-102; Math* |
| Area B | Religion, 6 hours |
| Area C | History, 3 hours |
| Area D | SPCH 135; Foreign Lang/Lit/Fine Arts, 3 hours |
| Area E | BIOL 101-102; PHYS 137 |
| Area F | HLED 173; PSYC 124, 128; SOCI 150 or 230, Sociology Course, 3 hours** |
| Area G | PEAC, 2 hours to include PEAC 225; Computer Course, 3 hours |
| Electives to make a total of 64 hours. | |

*MATH 100 level or above is required by Southern College of students with ACT math scores below 22.

**May be substituted by a course in Economics or Geography.

Sample Sequence
A.S. Pre-Speech Language Pathology & Audiology

| <u>YEAR 1</u> | | <u>Semester</u> | | <u>YEAR 2</u> | | <u>Semester</u> | |
|---------------|----------------------|-----------------|------------|---------------|--------------------------------------|-----------------|------------|
| | | <u>1st</u> | <u>2nd</u> | | | <u>1st</u> | <u>2nd</u> |
| BIOL 101-102 | Anatomy & Physiology | 3 | 3 | HLED 173 | Health & Life | 2 | |
| ENGL 101-102 | College Composition | 3 | 3 | PEAC 225 | Conditioning | | 1 |
| PSYC 124 | Intro to Psychology | 3 | | PHYS 137 | Intro to Physics*** | | 3 |
| SPCH 135 | Intro to Public Spkg | | 3 | PSYC 128 | Developmental Psych | 3 | |
| | Math Course* | 0-3 | | SOCI 150 | Cultural Anthro** | 3 | |
| | Area B, Religion | 3 | | | Area B, Religion | | 3 |
| | Area C-1, History | | 3 | | Area D, Forgn Lang/ Lit/Fine Arts | 3 | |
| | Area G-3, Rec Skills | | 1 | | Area G-2, CPTR Course | | 3 |
| | Electives | 1-4 | 3 | | Soci/Econ/Geog | | 3 |
| | | 16 | 16 | | Electives | 5 | 3 |
| | | | | | | 16 | 16 |

*Math course 100 level or above is required by Southern College of students with ACT math scores below 22.

**SOCI 230 may be substituted for this course.

***Strongly recommended

NOTE: C is the lowest acceptable grade.

Work or volunteer service in a health care setting and a minimum cumulative GPA of 2.5 are required.

PRE-SURGEON'S ASSISTANT

The surgeon's assistant is qualified to assist the surgeon in his patient care activities. Functioning under the direction of the surgeon, the surgeon's assistant is capable of obtaining accurate medical history and physical examination data, carrying out preoperative procedures to prepare the patient for surgery, assisting the surgeon during operations, participating in the care and evaluation of the patient in the postoperative period, assisting in the management of the traumatized patient, and caring for minor injuries. Surgeon's assistants may be involved with patients in any medical setting for which the surgeon is responsible including the operating room, recovery room, intensive care unit, and the surgeon's office.

Adviser: Stephen A. Nyirady

The program below meets admission requirements for University of Alabama at Birmingham, and can be modified to meet requirements of other schools.

- Area A ENGL 101-102; MATH 120
- Area B RELB, RELT, 6 hours
- Area C History or Political Science, 6 hours
- Area D SPCH 135; 6 hours of literature; 6 hours of Foreign Lang/Lit/Fine Arts
- Area E BIOL 101-102, 151-152, 330; CHEM 151-152
- Area F Psychology/Sociology, 6 hours
- Area G PEAC 225; Computer Course, 2 hours
- Electives to make a total of 64 hours.

Recommended, 6 hours of electives from the following areas: Statistics, Cell Biology, Genetics, Histology

Work or volunteer service in a health care setting is highly recommended.

Sample Sequence A.S. Pre-Surgeon's Assistant

| YEAR 1 | | Semester | | YEAR 2 | | Semester | |
|---------------|-------------------------|-----------------|------------|---------------|----------------------|-----------------|------------|
| | | 1st | 2nd | | | 1st | 2nd |
| BIOL 101-102 | Anatomy & Physiology | 3 | 3 | BIOL 330 | General Microbiology | | 4 |
| BIOL 151-152 | General Biology | 4 | 4 | CHEM 151-152 | General Chemistry | 4 | 4 |
| ENGL 101-102 | College Composition | 3 | 3 | MATH 120 | Precalculus Algebra | 3 | |
| | Area C, History/Pol Sci | 3 | 3 | PEAC 225 | Conditioning | 1 | |
| | Area D, Forgn Lang/ | | | SPCH 135 | Intro to Public Spkg | | 3 |
| | Fine Arts | 3 | 3 | | Area B, Religion | 3 | |
| | Area G-2, CPTR Course | 1 | 1 | | Area D, Literature | 3 | 3 |
| | | 17 | 17 | | Area F-1, Behav Sci | 3 | 3 |
| | | | | | | 17 | 17 |
| SUMMER | | | | | | | |
| | Area B, Religion | 3 | | | | | |

ART

Chair: Robert Garren
Faculty: Adán Saldaña

Basic to the philosophy of the Department of Art is the provision for the quality of environment most conducive to spiritual, aesthetic, and technical growth. The instructors desire to help all students become aware of their options in the field of art and to prepare them systematically to meet the needs of their respective choices, whether they are oriented commercially or aesthetically.

ASSESSMENT

Students majoring in Art or Art-Computer Graphic Design will keep a portfolio of their work from their freshman year onward. The art faculty will evaluate the portfolio at the end of the sophomore and senior years. The evaluation, which is designed to aid the department in student advisement and in determining the effectiveness of its teaching and course offerings, will not affect graduation.

Major—B.A. Art (31 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Select 2 of the Following:</u> | <u>Hours</u> |
|-----------------------------------|--------------|-----------------------------------|--------------|
| ART 104 Drawing I | 3 | ART 318 Art Appreciation (W) | 3 |
| ART 105 Drawing II | 3 | ART 344 Art History (W) | 3 |
| ART 125 Graphic Design Principles | 3 | ART 345 Contemporary Art (W) | 3 |
| ART 499 Senior Project | 1 | | |
| Art Electives | 15 | | |

Sample Freshman Year Sequence B.A. Art

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|------------------------------|--------------|-----------------------------------|--------------|
| ART 104 Drawing I | 3 | ART 105 Drawing II | 3 |
| ENGL 101 College Composition | 3 | ART 125 Graphic Design Principles | 3 |
| Art Electives | 3 | ENGL 102 College Composition | 3 |
| Inter Foreign Language | 3 | PEAC 225 Conditioning | 1 |
| Area B, Religion | 3 | Inter Foreign Language | 3 |
| | 15 | Area C-1, History | 3 |
| | | | 16 |

Major—B.S. Art-Computer Graphic Design (48 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Select 9 Hours From:</u> | <u>Hours</u> |
|--|--------------|--|--------------|
| ART 104 Drawing I | 3 | CPTE 251 Computer-Aided Design | 3 |
| ART 119-120 Publication Design | 6 | CPTE 245/345 Computer-Aided Publishing | 3 |
| ART 125-126 Graphic Design Principles | 6 | CPTE 249/349 Computer-Aided Drafting | 3 |
| ART 219-220 Intro to Computer Graphics | 6 | JOUR 125 Intro to Photography | 3 |
| ART 319-320 Adv Computer Graphics | 6 | JOUR 315 Photojournalism | 2-3 |
| ART 326-327 Illust with Computers | 6 | JOUR 227/327 Video Production | 3 |
| ART 330-331 Illustration Methods | 6 | PREL 344 Fundamentals of Advertising | 2 |
| ART 400 Intro to Multi-media Design | 3 | PREL 354 Advertising Copywriting | 2 |
| ART 318 Art Appreciation (W) | | | |
| OR | | | |
| ART 344 Art History (W) | 3 | | |
| OR | | | |
| ART 345 Contemporary Art (W) | | | |
| ART Electives | 6 | | |

Sample Freshman Year Sequence
B.S. Art-Computer Graphic Design

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|----------------------------|--------------|---------------------|-------------------------------|--------------|
| ART 104 | Drawing I | 3 | ART 126 | Graphic Design Prin II | 3 |
| ART 125 | Graphic Design Prin I | 3 | ART 220 | Intro to Computer Graphics II | 3 |
| ART 219 | Intro to Computer Graphics | 3 | ENGL 102 | College Composition | 3 |
| ENGL 101 | College Composition | 3 | PEAC 225 | Conditioning | 1 |
| | Area B, Religion | 3 | | Area C-1, History | 3 |
| | | 15 | | Area E, Natural Sci | 3 |
| | | | | | 16 |

Minor—Art (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|-----------------------------------|--------------|
| ART 104-105 Drawing I, II | 6 |
| ART 125 Graphic Design Principles | 3 |
| ART 344 History of Art | 3 |
| Upper Division Electives | 6 |

Minor—Art-Computer Graphic Design (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Select 1 of the Following:</u> | <u>Hours</u> |
|----------------------------------|--------------|-----------------------------------|--------------|
| ART 104 Drawing I | 3 | ART 218/318 Art Appreciation | 3 |
| Comp Graphic Design Electives 12 | | ART 344 Art History | 3 |
| | | ART 345 Contemporary Art | 3 |

STUDIO ART

ART 104-105. Drawing (G-1) 3,3 hours

An introductory course in drawing, composition, and design. Emphasis on the basic art elements and their functions in composition using various media. (Fall, Spring)

ART 119-120. Publication Design (G-1) 3,3 hours

Graphic designers, desktop publishers and production artists will benefit from this comprehensive class. Issues to be addressed include developing master pages and style sheets; setting type, text and frame attributes; importing images; working with spot color; and using typesetting techniques such as hyphenation, kerning, and tracking. Software: QuarkXpress.

ART 125-126. Graphic Design Principles (G-1) 3,3 hours

Students learn techniques and design theory related to graphic design with hands-on practical applications.

ART 219-220. Introduction to Computer Graphics 3,3 hours

An introductory, creative imaging course for artists, illustrators, and designers. Combining a survey of imaging technology with creative investigation and artistic expression, this course will introduce students to the technical solutions that will expand their creative vision. Software: Factual Design Painter.

ART 221-222. Painting 3,3 hours

Prerequisite: ART 104-105 or permission of instructor.

A course designed to give the student experience in using painting materials applied to compositional organizations. May be repeated for credit. (Fall, Spring)

ART 230. Introduction to Art Experiences 2 hours

A course designed to give students hands-on experience with a variety of art media and materials. Study will be given to how artists use media in their expression of design and composition. (Spring)

ART 235. Ceramics (G-1) 3 hours

Fundamentals of the preparation and use of clay. Methods of fabrication from hand building to wheel-thrown wares, chemistry and application of glazes, and stacking and firing of kilns. May be repeated for credit. A \$20 fee is applied toward necessary supplies. (Fall)

ART 300. Printmaking 3 hours

Prerequisite: ART 104 or permission of instructor.

A course designed to give the art major experience in printmaking media. Relief, intaglio, and silk-screen will be covered. Course will be taught in odd years.

ART 310. Painting III 3 hours

Prerequisite: ART 221 or permission of instructor.

Advanced problems in painting and the usage of various media.

ART 319-320. Advanced Computer Graphics 3,3 hours

This course is designed for the student, designer, photographer, or educator who is interested in both the creative and the technology within digital imaging. This course will address color correction, scanning resolution, image restoration, hand-coloring photographs, collage and montage techniques, masking and effective use of filters and special effects. Software: Adobe Photoshop.

ART 326-327. Illustration With Computers 3,3 hours

This course is an intensive study on how to create two-dimensional illustrations and typographic arrangements. The program uses paths made of curves and straight line segments to define areas which may be filled with color or patterns, used for masking or for framing type and objects. Students will manipulate typefaces, trap and knock out color, generate clean printable files, and move files to page-layout or image-editing applications. Software: Adobe Illustrator.

ART 325. Sculpture 3 hours

Prerequisite: ART 104 or permission of instructor.

Introduction to the problems of form in sculpture and three-dimensional design using various media such as clay, plaster, wood, and metal casting. Course will be taught in even years.

ART 330-331. Illustration Methods 3,3, hours

Students will learn illustration techniques using pencils, ink, markers, colored pencils, air brush, and photo retouching.

ART 400. Introduction to Multi-media Design 3 hours

This course covers the steps and issues in creating a formalized multimedia design and publishing onto CD. Areas covered are story boarding for graphical look, interactive story-boards, flowcharting brainstorming, dealing with software and hardware constraints, and preparation of a design document. Emphasis is on shaping an idea into a well-thought-out design that works as a multimedia experience.

ART 410. Painting IV 3 hours

Prerequisite: ART 221 or permission of instructor.

Advanced problems in painting and the usage of various media.

ART 497. Graphic Design Practicum 1-3 hours

Students will work in a graphics-related business for a minimum of 40 clock hours per credit hour with employer evaluation. Students must maintain a log sheet and samples of work.

ART 295/495. Directed Study (W)**1-3 hours**

For students electing to take ART 295, permission of the teacher must be obtained. ART 495 is for majors and minors only.

The course is designed for students who wish directed study or for a group of students who wish a special course not taught under the regular class offering. Students taking the class as directed study may choose from art history, ceramics, design, drawing, painting, printmaking, and sculpture. (Students must have had maximum classes offered in area.) This course also includes credit offered by the Art Department on directed study tours. May be repeated for credit up to four times. Writing emphasis for ART 495 only.

ART 499. Senior Project**1 hour**

Major projects in area of interest for seniors and preparation of permanent portfolio of college art work.

ART HISTORY**ART 218/318. Art Appreciation (D-3) (W)****3 hours**

Lecture and travel seminar. One class is offered in the fall semester, with two hours per week lecture, and the week of Thanksgiving spent in and New York City visiting major art museums. When offered in the first summer session, there will be one week of two-hour lectures and two weeks of travel and museum visits. There is an additional charge for travel. Students will be required to write a summary paper. Students taking the class for upper division credit will be required to write a research paper.

ART 344. History of Art (D-3) (W)**3 hours**

A study of the arts of western civilization from antiquity to the mid-1800's with an emphasis on pivotal figures in art history. (Fall)

ART 345. Contemporary Art (D-3) (W)**3 hours**

Nineteenth- and twentieth-century developments in European and American arts. (Spring)

(D-3) (G-1) (W) See pages 25-29 for explanation of general education requirements.

BEHAVIORAL SCIENCE

Chair: Ed Lamb

Faculty: Terrie Ruff, Larry Williams (*Social Work Program Coordinator*)

Adjunct Faculty: Sherri Craig, Ellen Gilbert

The Behavioral Science faculty fully support the educational philosophy and objectives of Southern College. More specifically, this faculty embraces the following beliefs:

- (1) God is not only the Creator and Sustainer of all life, but also the ultimate Source of all knowledge.
- (2) Man is created in the image of God, and possesses harmonious physical, mental, spiritual, and social attributes.
- (3) A loving God seeks to restore His image in humanity, thus preparing them for personal fellowship with Himself.

We understand a redemptive education must focus on the growth of the whole person. The Behavioral Science faculty commits itself, therefore, to achieving the following objectives:

Spiritual

Behavioral Science majors will acquire an understanding of the basic beliefs and values of Christianity as presented by the Seventh-day Adventist Church. We, as their teachers, will provide class devotionals, Christian-service applications, and the encouragement for them to commit themselves to such ideals.

Intellectual

Those studying Behavioral Science at this college will perceive themselves as Christian scholars beginning a lifelong pursuit of knowledge. We have designed course-related activities and investigations to aid them in achieving intellectual and career goals, and in acquiring the necessary tools for future learning. The Behavioral Science curriculum is structured so as to encourage critical thinking, perceptive discussion, intellectual curiosity, and cultural awareness.

Social

Behavioral Science students are expected to develop positive interpersonal skills, communication techniques, and decision-making approaches. The teachers in this program strongly emphasize the attitudes of acceptance, caring, patience, and service.

Physical

Students in Behavioral Science are encouraged to develop a holistic view of mankind in appreciation for the interactive nature of our physical, mental, social, and spiritual being. They are expected to establish balanced programs of exercise, rest, diet, study, work, and recreation. The faculty promotes such positive values and practices through example and instruction.

PROGRAMS IN BEHAVIORAL SCIENCE

The Behavioral Science Department offers a degree in Family Studies and in Social Work. Minors are also available in Behavioral Science, Family Studies, and Sociology.

The curricula for both the Behavioral Science and the BSW degrees include computer content and hands-on experience intended to enable majors to develop elementary skills including word processing, Internet, CD ROMs, video-interactive, and statistical analysis. Majors are encouraged to have their own personal computer (PCs) if possible.

Family Studies: The Behavioral Science major with a Family Studies emphasis is for those students wishing to prepare for graduate study in community and/or family counseling, law, personnel work, sociology of the family, or family life education.

Social Work: The Bachelor of Science in social Work (BSW) is offered for those students seeking preparation for entry-level generalist baccalaureate practice positions. The BSW is the foundation degree leading to possible careers in mental health, child welfare, health care, public welfare, schools, family service, developmental disabilities, services to the aged, industry, business and labor, and justice. The BSW is also the preferred preparation for the terminal graduate practice degree, the Master of Social Work (MSW). Job opportunities in the social work profession are projected to grow at a rate considerably above the average during the coming decade. Official application to the BSW program is expected during the second semester of the sophomore year, although the social work major may be declared at any time during the college experience.

ASSESSMENT

To help the graduates in Behavioral Science evaluate their academic progress and to aid the department in evaluating teaching effectiveness, each senior is required to:

1. Take an oral exam during the fall semester of the senior year that will be based on assigned readings and coursework material.
2. Take a standardized achievement test (PACAT) in the spring semester of the senior year.
3. Present a personal portfolio of papers and case material to the departmental faculty.

Information gained from the above assessments is used to evaluate departmental programs, but it will not affect graduation eligibility.

BEHAVIORAL SCIENCE DEPARTMENT STUDY TOURS

The Behavioral Science Department sponsors a study tour to New York City yearly during Thanksgiving vacation and a study tour to Europe every other year. The objectives of these tours are to facilitate a better understanding of peoples and cultures and to enable the participants to work with people more effectively. Academic credit is given for these tours and each requires classroom time (see SOCI, SOCW 296/496).

Major—B.S. Behavioral Science (Family Studies Emphasis) (45 Hours)

| <u>Required Courses</u> | | | <u>Hours</u> | <u>Required Cognates</u> | | | <u>Hours</u> |
|-------------------------|-----------------------------|---|--------------|--------------------------|--------------------------|---|--------------|
| PSYC 124 | Intro to Psychology | 3 | | CPTR 105 | Intro to Word Processing | 1 | |
| PSYC 128 | Developmental Psych | 3 | | CPTR 106 | Intro to Spreadsheets | 1 | |
| PSYC 297 | Research Design & Stat I | 3 | | CPTR 107 | Intro to Data Base | 1 | |
| PSYC 315 | Abnormal Psychology | 3 | | | OR | | |
| PSYC 497 | Research Design & Stat II | 3 | | EDUC 250 | Technology in Education | 3 | |
| SOCI 125 | Intro to Sociology | 3 | | SPCH 135 | Intro to Public Speaking | | |
| SOCI 201 | Parenting | 3 | | | OR | 3 | |
| SOCI 223 | Marriage and the Family | 2 | | SPCH 136 | Interpersonal Com | | |
| SOCI 233 | Human Sexuality | 3 | | | Area E-1, Biology | 3 | |
| SOCI 349 | Aging and Society (W) | 3 | | | | | |
| SOCI 360 | Family Life Education | 3 | | | | | |
| SOCI 365 | Family Relations | 3 | | | | | |
| SOCI 424 | Contemp Social Problems | 3 | | | | | |
| SOCI 495 | Directed Study | 1 | | | | | |
| SOCW 211 | Intro to Social Work | 3 | | | | | |
| SOCW 212 | Social Welfare as an Instit | 3 | | | | | |

Sample Freshman Year Sequence B.S. Behavioral Science (Family Studies Emphasis)

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|----------------------|--------------|---------------------|--------------------------|--------------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| SOCI 125 | Intro to Sociology | 3 | PSYC 124 | Intro to Psychology | 3 |
| SOCW 211 | Intro to Social Work | 3 | PSYC 128 | Developmental Psych | 3 |
| | Area B, Religion | 3 | SPCH 135 | Intro to Public Speaking | |
| | Area G | 3 | | OR | 3 |
| | | 15 | SPCH 136 | Interpersonal Com | |
| | | | | Area E-1, Biology | 3 |
| | | | | Area G, Act Skills | 1 |
| | | | | | 16 |

Major—B.S.W., Social Work (49 hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|---------------------------|--------------|--------------------------|-----------------------------|--------------|
| PSYC 124 | Intro to Psychology | 3 | CPTR 105 | Intro to Word Processing | 1 |
| PSYC 128 | Developmental Psych | 3 | CPTR 106 | Intro to Spreadsheets | |
| PSYC 297 | Research Design & Stat I | 3 | | AND | 2 |
| PSYC 497 | Research Design & Stat II | 3 | CPTR 107 | Intro to Data Base | |
| SOCI 125 | Intro to Sociology | 3 | | OR | |
| SOCW 211 | Intro to Social Work | 3 | EDUC 250 | Technology in Education | 2 |
| SOCW 212 | Social Welfare as Inst | 3 | PLSC 254 | American Natl and State Gov | |
| SOCW 213 | Interviewing Skills | 1 | | OR | 3 |
| SOCW 230 | Race Relations | 3 | ECON 213 | Survey of Economics | |
| SOCW 313 | Human Behavior | 4 | RELT 373 | Christian Ethics | 3 |
| SOCW 314 | Social Work Meth I (W) | 3 | SOCI 150 | Cultural Anthropology | 3 |
| SOCW 315 | Social Work Meth II (W) | 3 | SPCH 135 | Intro to Public Speaking | |
| SOCW 424 | Contemp Social Problems | 3 | | OR | 3 |
| SOCW 434 | Social Welfare Issues | 3 | SPCH 136 | Interpersonal Communication | |
| SOCW 435 | Social Work Practicum I | 4 | | Any human biology course | 3 |
| SOCW 436 | Social Work Practicum II | 4 | | | |

Sample Freshman Year Sequence
B.S.W., Social Work

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|--------------------------|-------|--------------|---------------------|-------|
| CPTR 105 | Intro to Word Processing | 1 | ENGL 102 | College Composition | 3 |
| ENGL 101 | College Composition | 3 | PSYC 124 | Intro to Psychology | 3 |
| PSYC 128 | Developmental Psych | 3 | SOCI 125 | Intro to Sociology | 3 |
| SOCI 150 | Cultural Anthropology | 3 | SOCW 230 | Race Relations | 3 |
| SOCW 211 | Intro to Social Work | 3 | | Area G, Act Skills | 2 |
| | Area B, Religion | 3 | | Electives | 2 |
| | | 16 | | | 16 |

Minor—Behavioral Science (18 hours)

| Required Courses | Hours |
|-------------------------------|-------|
| PSYC 124 Intro to Psychology | 3 |
| SOCI 125 Intro to Sociology | 3 |
| SOCW 211 Intro to Social Work | 3 |
| *Electives | 9 |

*An additional nine hours selected from any Behavioral Science areas with a minimum of six hours of upper division Behavioral Science classes.

Minor—Family Studies (19 hours)

| Required Courses | Hours | Select 8 hours from following: | Hours |
|------------------------------|-------|--------------------------------|-------|
| SOCI 201 Parenting | 3 | PSYC 128 Developmental Psych | 3 |
| SOCI 223 Marriage and Family | 2 | NRSB 265 Women's Issues | 3 |
| SOCI 233 Human Sexuality | 3 | SOCI 349 Aging and Society | 3 |
| SOCI 365 Family Relations | 3 | SOCI 360 Family Life Education | 3 |
| | | PSYC 367 Adolescent Psychology | 3 |
| | | PSYC 479 Family Counseling | 3 |

Minor—Sociology (18 Hours)

| Required Courses | Hours |
|----------------------------------|-------|
| SOCI 125 Intro to Sociology | 3 |
| SOCI 150 Cultural Anthropology | 3 |
| SOCI 424 Contemp Social Problems | 3 |
| Sociology Electives | 9 |

SOCIOLOGY

SOCI 125. Introduction to Sociology (F-1) 3 hours

An objective approach to the analysis and understanding of the social world. Consideration is given to the dynamic nature of American society and social institutions. Emphasis is placed on the study of social groups including the family, its history and current place in society. (Fall, Spring, Summer)

SOCI 150. Cultural Anthropology (F-1) 3 hours

A study of culture and cultural variation. The contemporary beliefs, values, institutions, and material dimensions of people in North America are contrasted with those of people living in other regions of the world today and in the past. (Fall)

SOCI 201. Parenting (F-2)**3 hours**

A study of the family system in preparation for parenthood and the dynamics of parent-child interaction. Attention is given to family planning, the childbirth experience, child development, techniques for developing close relationships and communication between parent and child, understanding and relating to children's individuality, common child rearing problems, and methods of modifying behavior. (Spring)

SOCI 223. Marriage and the Family (F-2)**2 hours**

A course in the ethics of human relationships, including the place of the family in society and a Christ-centered approach to marital and familial conflicts. (Fall, Spring)

SOCI 224. Social Psychology (F-1)**3 hours**

See PSYC 224 for course description.

SOCI 230. Race Relations (F-1)**3 hours**

A study of interactional patterns between various human groups. Consideration is given to the theoretical bases of race relations and to class activities which promote awareness and understanding. (Spring)

SOCI 233. Human Sexuality (F-1 or F-2)**3 hours**

A study of human sexual behavior, relationships, and values as reflected in the Christian cultural setting. (Spring)

SOCI 349. Aging and Society (F-1) (W)**3 hours**

The course emphasizes the reciprocal impact of societal attitudes on the process of aging and the increasing influence of "mature citizens" in contemporary society. Historical, demographic, and future trends are explored. A balance between the theoretical and the applied is sought. (Fall, Spring, Summer)

SOCI 356. Natives and Strangers (F-1) (W)**3 hours**

See HIST 356 for course description.

SOCI 360. Family Life Education**3 hours**

A study of existing family life education programs, including computer generated resources. Focus is also given to the design and development of original family life education materials. (Fall)

SOCI 365. Family Relations (F-2)**3 hours**

A sociological analysis of family structures and functions. Attention will be given to courtship, family organization and interaction, family disorganization and reorganization, and the post-parental family. Emphasis will be given to findings of recent family studies. (Spring)

SOCI 374. Criminology (F-1)**3 hours**

This course emphasizes the scientific study of crime as a social phenomenon, of criminals, and of penal treatment. The relationship of law and crime to other trends in the social order. Research in prevention and treatment of crime. (Fall, odd years)

SOCI 424. Contemporary Social Problems (F-1) 3 hours

Attention is given to the major forces shaping cultural and subcultural changes today. Changes are particularly viewed as to their effectiveness in bringing about group and mass adjustment. (Spring)

SOCI 265/465. Topics in Sociology 1-3 hours

Study of special topics pertinent to the field of sociology. Content will vary among various topics, based on the interests or needs of students and the department. This course may be repeated for credit.

SOCI 295/495. Directed Study 1-3 hours

Prerequisite: SOCI 125 or permission of the instructor.

Study of special topics pertinent to the area of sociology and family studies. Open to qualified students who want to follow a program in independent study. This course can be repeated for credit for a total of not more than three hours credit.

SOCI 296/496. Study Tour (F-1) 1-3 hours

A tour is scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). A European tour to study social policy and selected cultures is taken every other summer or as needed. An additional fee is required to cover travel expenses.

SOCIAL WORK

SOCW 101. Orientation to College (G-2) 3 hours

A course designed for all freshmen, focusing on the theory and practice of attitudes and skills necessary to adjust to college life. Class assignments include but are not limited to the study of career choices, academic skills, time relationships with peers and professors, management, and sources of assistance to resolve problems common to a Christian campus. All freshmen are encouraged to enroll. (Fall, Spring)

SOCW 211. Introduction to Social Work (F-1) 3 hours

An introduction to the profession of social work, its historical roots, its values, and its fields of practice. A lab fee may be assessed to cover the expenses of off-campus field trips. (Fall)

SOCW 212. Social Welfare as an Institution (F-1) 3 hours

Social welfare systems are viewed from both historical and philosophical perspectives. The role of the Seventh-day Adventist Church in meeting human need is also examined. A lab fee may be assessed to cover the expenses of off-campus field trips. (Spring)

SOCW 213. Interviewing Skills 1 hour

Focuses on the development of interviewing and communication skills. Course is experientially based. (Spring)

SOCW 230. Race Relations (F-1) 3 hours

See SOCI 230 for course description.

SOCW 233. Human Sexuality (F-1 or F-2) 3 hours

See SOCI 233 for course description.

SOCW 313. Human Behavior and the Social Environment 4 hours

Prerequisites: BIOL 101; SOCI 125; PSYC 124, 128; SOCW 212 or permission of instructor.

A study of the interaction between human behavior and the social environment. Relevant concepts from the behavioral sciences will be reviewed to provide students with a holistic view of human behavior. Includes such topics as systems theory, roles, reference groups, and social stratification. To be taken prior to or concurrently with SOCW 314. (Fall)

SOCW 314. Social Work Methods I (W) 3 hours

Prerequisite: SOCW 212 or permission of instructor.

Provides students with theoretical framework for generalist social work practice. Topics include the establishment of relationship, assessment, contracts, intervention, utilization of resources, social work values and ethics. Work with individuals and families is emphasized in the first semester of a two-semester sequence. (Fall)

SOCW 315. Social Work Methods II (W) 3 hours

Prerequisite: SOCW 314 or permission of instructor.

A continuation of SOCW 314. The primary focus is on working with small groups and the community. Public policy development and implementation are also studied. (Spring)

SOCW 349. Aging and Society (W) 3 hours

See SOCI 349 for course description.

SOCW 374. Criminology (F-1) 3 hours

See SOCI 374 for course description.

SOCW 375. Introduction to Family Intervention (F-1) 3 hours

An introduction to the various theoretical orientations of family intervention. The family is viewed as a unit, with focus on programs and crisis techniques designed to maintain and re-establish family equilibrium.

SOCW 424. Contemporary Social Problems (F-1) 3 hours

See SOCI 424 for course description.

SOCW 434. Social Welfare Issues and Policies 3 hours

A study of contemporary issues and policies that influence the delivery of social services. Course requirements include a several-day social policy field trip to Washington, D.C. A lab fee will be assessed to cover the expenses of the Washington trip. (Fall)

SOCW 435. Social Work Practicum I 4 hours

Prerequisite: SOCW 314.

This course provides opportunity for students to apply practice theory to develop skills for generalists social work practice. Through participation in the social service delivery system, the student becomes familiar with agency structures, functions, and programs. A minimum of 200 hours will be spent working in an agency setting for each four hours of course work. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235.

SOCW 436. Social Work Practicum II

4 hours

This course builds on the experiences of the first semester practicum and progresses to more difficult and varied tasks. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235.

SOCW 265/465. Topics in Social Work (F-1)

1-3 hours

Study of special topics pertinent to the field of social work. Content will vary among various topics based on the interests or needs of students and the department. This course may be repeated for credit.

SOCW 295/495. Directed Study

1-3 hours

Prerequisite: SOCW 212 or permission of the instructor.

A study of special topics pertinent to the field of social work. Content will vary among such topics as child welfare, income maintenance, values and ethics of social work practice, etc. The selected topic is pursued for the entire semester. This course can be repeated for credit for a total of not more than three hours credit.

SOCW 296/496. Study Tour (F-1)

1-3 hours

A tour is scheduled annually for the purpose of studying a range of behavioral science topics. The fall trip to New York City occurs during Thanksgiving vacation and focuses on ethnicity, social problems, urban change, and social agencies (1 hour). A European tour to study social policy and selected culture is taken every other summer or as needed. An additional fee is required to cover travel expenses. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235.

SOCW 497. Research Methods (W)

3 hours

Prerequisite: MATH 215.

An introduction to common research design and methodology. Descriptive and relational designs are examined. A semester research proposal and completed project is expected of each student. (Fall)

(F-1) (F-2) (G-2) (W) See pages 25-29 for explanation of general education requirements.

BIOLOGY

Chair: Stephen A. Nyirady

Faculty: Joyce Azevedo, David Ekkens, Ann Foster, John Perumal, Keith Snyder

Adjunct Faculty: Edgar Grundset

Summer Faculty: Laura Nyirady

Adjunct Research Faculty: Ron Carter, John Henson

The study of Biology constitutes one of the most exciting and important fields of scientific investigation, since it provides a better understanding of ourselves and the living things around us. Even the casual observer of Biology who pauses long enough to take a course may derive a lifetime of pleasure and fulfillment from a hobby such as bird watching, shell collecting, or wild flower photography.

More importantly, a major in Biology is an excellent starting point for numerous careers which are both rewarding and challenging. With a B.S. degree in Biology, one may pursue graduate study leading to research in the basic sciences (anatomy, physiology, ecology, microbiology, cytology, etc.), teaching at the college or graduate level, or employment in industry or government. The B.A. degree is the degree of choice in preparation for high-school teaching, medicine, dentistry, optometry, careers in wildlife, forestry or zoo management, health education, public health, biostatistics, epidemiology, and environmental health, to name a few.

The Biology Department makes available a number of experiences, both curricular and extracurricular, to enrich its students' academic programs. Being within relatively easy access to a number of major biome types, it offers courses which include field experiences in such places as the Bahamas, Belize, Smoky Mountains, and the Okefenokee Swamp. The newly constructed Tennessee Aquarium provides additional learning resources. The department is also affiliated with two biological field stations (see page 21).

Extracurricular opportunities include membership in the *Beta Beta Beta* national biological honor society, a yearly lecture series on natural history and research topics (see page 20), as well as a premedical preceptorship program (see page 222).

ASSESSMENT

In order to help evaluate its teaching effectiveness and the academic achievements of its graduates, all seniors are required to pass the ETS Major Field Achievement Test in Biology during their final semester. The results of these exams are used by the department staff to evaluate class offerings as well as program requirements.

DEGREES IN BIOLOGY

Biology Core Courses (20 Hours)

| <u>Core</u> | | <u>Hours</u> | <u>Core</u> | | <u>Hours</u> |
|--------------|----------------------------|--------------|-------------|-------------------------------|--------------|
| BIOL 151-152 | General Biology | 8 | BIOL 424 | Issues in Natural Sci/Rel (W) | 3 |
| BIOL 316 | Genetics | 4 | BIOL 485 | Biology Seminar (W) | 1 |
| BIOL 412 | Cell and Molecular Biology | 4 | | | |

Areas:**Botany:**

| | |
|----------|----------------------------|
| BIOL 408 | Flowering Plants and Ferns |
| BIOL 409 | Smoky Mountain Flora |
| BIOL 419 | Plant Physiology |

Ecology:

| | |
|----------|----------------------------|
| BIOL 226 | Environmental Conservation |
| BIOL 317 | Ecology |
| | Marine Biology Courses |

Microbiology:

| | |
|----------|----------------------|
| BIOL 315 | Parasitology |
| BIOL 330 | General Microbiology |
| BIOL 340 | Immunology |

Zoology Field Courses:

| | |
|----------|----------------------------|
| BIOL 312 | Vertebrate Natural History |
| BIOL 314 | Ornithology |
| BIOL 319 | Herpetology |
| BIOL 320 | Entomology |
| BIOL 411 | Mammalogy |

Basic Zoology:

| | |
|----------|---------------------|
| BIOL 313 | Embryology |
| BIOL 415 | Comparative Anatomy |
| BIOL 417 | Animal Histology |
| BIOL 418 | Animal Physiology |

Major—B.A. Biology (Chemistry Minor Recommended) (32 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Cognates</u> | <u>Hours</u> |
|-------------------------------------|--------------|-----------------------------------|--------------|
| BIOL 151-152 General Biology | 8 | CHEM 151-152 General Chemistry | 8 |
| BIOL 316 Genetics | 4 | CHEM 311-314 Organic Chemistry | 8 |
| BIOL 412 Cell and Molecular Biology | 4 | MATH 120 Precalculus Algebra | 3 |
| BIOL 424 Issues in Natural Sci/Rel | 3 | SPCH 135 Intro to Public Speaking | 3 |
| BIOL 485 Biology Seminar (W) | 1 | Computer Course(s) | 3 |

One course minimum from four of the five biology core areas

MATH 121 Precalculus Trigonometry, 2 hours; PHYS 211-212 and 213-214 General Physics and General Physics Laboratory, 8 hours; are highly recommended.

Sample Freshman Year Sequence**B.A. Biology**

(Chemistry Minor Recommended)

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|------------------------------|--------------|-----------------------------------|--------------|
| BIOL 151 General Biology | 4 | BIOL 152 General Biology | 4 |
| ENGL 101 College Composition | 3 | ENGL 102 College Composition | 3 |
| MATH 120 Precalculus Algebra | 3 | MATH 121 Precalculus Trigonometry | 2 |
| PEAC 225 Conditioning | 1 | Area B-2, Religion | 3 |
| Area B-1, Religion | 3 | Area G 1/3, Skills | 1 |
| Area F-2/3, Fam/Hlth Sci | 2 | Electives | 3 |
| | 16 | | 16 |

Major—B.S. Biology (41 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Cognates</u> | <u>Hours</u> |
|-------------------------------------|--------------|-----------------------------------|--------------|
| BIOL 151-152 General Biology | 8 | CHEM 151-152 General Chemistry | 8 |
| BIOL 316 Genetics | 4 | CHEM 311-314 Organic Chemistry | 8 |
| BIOL 412 Cell and Molecular Biology | 4 | CPTR Computer Courses | 3 |
| BIOL 424 Issues in Natural Sci/Rel | 3 | MATH 120 Precalculus Algebra | 3 |
| BIOL 485 Biology Seminar (W) | 1 | MATH 121 Precalculus Trigonometry | 2 |
| | | MATH 215 Statistics | 3 |
| | | PHYS 211-212 General Physics | 6 |
| | | PHYS 213-214 General Physics Lab | 2 |
| | | SPCH 135 Intro to Public Speaking | 3 |

BIOL 397, Introduction to Research (W), 1 hour; BIOL 497, Research in Biology (W), 1-2 hours; and MATH 181, Calculus I, 3 hours, are highly recommended. Forty-one hours minimum including Biology core of 20 hours, plus one course from each of the five areas.

Sample Freshman Year Sequence

B.S. Biology

| 1st Semester | Hours | 2nd Semester | Hours |
|------------------------------|-------|-----------------------------------|-------|
| BIOL 151 General Biology | 4 | BIOL 152 General Biology | 4 |
| ENGL 101 College Composition | 3 | ENGL 102 College Composition | 3 |
| MATH 120 Precalculus Algebra | 3 | MATH 121 Precalculus Trigonometry | 2 |
| Area B-1, Religion | 3 | Area D, Lang/Lit/ Fine Arts | 3 |
| Area F-2,3 Fam/Hlth Sci | 2 | Area F-1, Beh Sci | 3 |
| | 15 | Area G-3, Rec Skills | 1 |
| | | | 16 |

Major—B.A. Biology, Teacher Certification, 7-12

Secondary certification in Biology requires a baccalaureate degree consisting of 36 credits of specified biology courses, a minor in chemistry, specified cognates, and completion of professional education courses (page 118) for licensure. See explanations in the Education and Psychology section, beginning on page 107.

| Required Courses | Hours | Chemistry Minor | Hours |
|---|-------|------------------------------------|-------|
| BIOL 151-152 General Biology | 8 | CHEM 151-152 General Chemistry | 8 |
| BIOL 226 Environmental Conservation | 3 | CHEM 311-314 Organic Chemistry | 8 |
| BIOL 316 Genetics | 4 | CHEM 323 Biochemistry | 4 |
| BIOL 330 General Microbiology | 4 | | |
| BIOL 408 Flowering Plants & Ferns OR | 3 | Required Cognates | |
| BIOL 409 Smoky Mt. Flora | | ERSC 105 Earth Science | 3 |
| BIOL 412 Cell and Molecular Biology | 4 | RELT 424 Issues in Natural Sci/Rel | 3 |
| BIOL 418 Animal Physiology | | SPCH 135 Intro to Public Speaking | 3 |
| OR | 3 | MATH 120 Precalculus Algebra | 3 |
| BIOL 419 Plant Physiology | | MATH 215 Statistics | 3 |
| BIOL 485 Biology Seminar (W) | 1 | PHYS 137 Intro to Physics | 3 |

One Course from the following:

| | |
|-------------------------------------|---|
| BIOL 312 Vertebrate Natural History | 3 |
| BIOL 314 Ornithology | 3 |
| BIOL 319 Herpetology | 3 |
| BIOL 320 Entomology | 3 |
| BIOL 411 Mammalogy | 3 |

Sample Freshman Year Sequence

B.A. Biology

(Leading to Licensure 7-12)

| 1st Semester | Hours | 2nd Semester | Hours |
|------------------------------|-------|----------------------------------|-------|
| BIOL 151 General Biology | 4 | BIOL 152 General Biology | 4 |
| CHEM 151 General Chemistry | 4 | CHEM 152 General Chemistry | 4 |
| EDUC 135 Intro to Education | 2 | EDUC 250 Technology in Education | 2 |
| ENGL 101 College Composition | 3 | ENGL 102 College Composition | 3 |
| RELT 138 Adventist Heritage | 3 | MATH 120 Precalculus Algebra | 3 |
| | 16 | | 16 |

Minor—Biology (18 Hours)

| Required Courses | Hours |
|------------------------------|-------|
| BIOL 151-152 General Biology | 8 |
| *Biology Electives | 10 |

*An additional ten hours with a minimum of six hours must be in upper division.

NON-MAJOR, NON-MINOR COURSES

BIOL 101-102. Anatomy and Physiology (E-1) 3,3 hours

A study of the fundamentals of human anatomy and physiology. The first semester covers basic cytology, histology, the musculoskeletal, integumentary, nervous, and endocrine systems. The remainder of the body systems are studied the second semester. Two lectures and one three-hour laboratory period each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

BIOL 103. Principles of Biology (E-1) 3 hours

A basic general education biology course designed to give the student a modern treatment of the fundamental processes and principles of plant and animal life. Two lectures and one three-hour laboratory each week. Does not apply on a major or minor in Biology. (Fall, Spring)

BIOL 225. Basic Microbiology (E-1) 4 hours

A study of the principles of microbiology, disinfection, sterilization, elementary immunology, and microorganisms emphasizing their relationship to health and disease. Three lectures and two one and one-half hour laboratory periods each week. Does not apply on a major or minor in Biology. (Fall, Spring, Summer)

CORE COURSES

BIOL 151-152. General Biology (E-1) 4,4 hours

This is a rigorous introductory course in Biology primarily for Biology majors, minors, and pre-professional students. The course is designed to give the student a solid foundation in the fundamental processes of plant and animal life. It is prerequisite to most all other Biology major courses. Three lectures and one three-hour laboratory period each week. (Fall, Spring)

BIOL 316. Genetics 4 hours

Prerequisite: BIOL 225 or 151, or consent of instructor.

A study of heredity as related to man, domestic plants and animals and an investigation of gene structure and function. Three lectures and one three-hour laboratory period each week. (Spring)

BIOL 412. Cell and Molecular Biology 4 hours

Prerequisites: BIOL 151-152; BIOL 316.

This course, designed for advanced Biology and Chemistry majors, deals primarily with cell structure and function. Building on cellular principles learned in BIOL 151-152, the student is exposed to methods of cellular research while learning about the appearance and operation of cellular organelles. The exciting details of cell integration and control provide the framework for this interdisciplinary study. Three lectures and one three-hour laboratory period each week. (Fall)

BIOL 424. Issues of Natural Science and Religion (E-1) (W) 3 hours

Prerequisite: Senior standing.

A study of the philosophical basis of modern natural science as it relates to current issues in origins, biotechnology, bioethics, and environmental responsibility. Special attention is given to Christian perspectives of the issues discussed. Credit can be applied toward either Biology or Religion (see RELT 424). Three lectures each week. (Fall)

BIOL 485. Biology Seminar (W)**1 hour**

Prerequisites: Biology major or minor with senior standing.

Reports are made on some specific problem in the field of Biology and on current literature in the field. To be taken in the senior year or with approval of Department Chair. (Fall, Spring)

BOTANY**BIOL 408. Flowering Plants and Ferns****3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

This field study of trees, flowering plants and ferns emphasizes species identification with the aid of botanical keys, recognition of plant families and noting habitats where various species occur. Other taxonomic methods will be introduced. Students will prepare a collection of herbarium specimens. Two lectures and one field trip or three-hour laboratory period each week. (Fall, odd years; Summer, even years)

BIOL 409. Smoky Mountain Flora**3 hours**

Prerequisite: BIOL 152 or consent of instructor.

A field study of the wild flowers, shrubs and trees in the Great Smoky Mountain National Park, which contains the world's finest examples of temperate deciduous forest. Plants are identified by means of botanical keys, and observation lists are kept. Special attention is given to the different forest types and their associated plants. Involves a 10-day to three-week camping study experience. Field trips daily. (Summer, odd years)

BIOL 419. Plant Physiology**3 hours**

Prerequisites: BIOL 151-152 and CHEM 151-152 or consent of instructor.

A study of the functions of seed plants. Topics covered include water relations, mineral nutrition, photosynthesis, transpiration, translocation, respiration, and growth. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

ECOLOGY**BIOL 226. Environmental Conservation (E-1)****3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

This very relevant course introduces the student to the very complex interlocking environmental problems facing us today. Beginning with basic ecological principles, the course goes on to examine population dynamics, energy utilization, resource consumption, the various forms of pollution, and conservation methods to preserve our natural resources, natural areas, and native species. On field trips we will evaluate how efficiently our natural resources are being monitored, utilized, and conserved. Two lectures and one field trip or three-hour laboratory period each week. (Spring)

BIOL 250. Introduction to Tropical Marine Biology (E-1)**3 hours**

A study of the major invertebrates and fish of the tropical coral reef and seashores. Emphasis is placed on the life habits of the organisms and their ecological niches. Habitats studied are coral reefs, rocky shores, sandy beaches, thalassia beds and mangrove swamps. Involves two weeks of on-campus classwork and 7-10 day field laboratory experience in the Bahamas. There is an additional charge for the Bahamas trip. (Summers)

BIOL 317. Ecology**3 hours****Prerequisites:** BIOL 151-152 or consent of instructor.

Ecology is a study of the interrelationships of plants, animals and their environment. This course will examine these interactions in the context of energy flow, nutrient cycles, limiting factors, succession and population dynamics. Field work will introduce various ecological sampling techniques and the student will participate in ecological analysis of various local communities as well as extended field trips. Two lectures and one field trip or three-hour laboratory period each week. (Fall)

ZOOLOGY FIELD COURSES**BIOL 312. Vertebrate Natural History****3 hours****Prerequisites:** BIOL 151-152 or consent of instructor.

Natural history of the vertebrate classes including ecology, physiology, behavior, classification and identification, with emphasis on local species. Two lectures and one three-hour laboratory each week. An extended weekend field trip will be required as part of laboratory credit. (Fall, even years)

BIOL 314. Ornithology (E-1)**3 hours**

A systematic study of bird life with special emphasis on external features, taxonomy, nesting and feeding habits, flight and migratory patterns. Two lectures and one laboratory period each week. An extended field trip, which applies toward laboratory credit, is planned during spring vacation. There is an additional charge for the trip. (Spring, odd years)

BIOL 319. Herpetology**3 hours****Prerequisites:** BIOL 151-152 or consent of instructor.

Natural history, ecology, physiology, behavior, classification and identification of amphibians and reptiles, with emphasis on local species. Two lectures and one three-hour laboratory each week. An extended field trip will be required as part of laboratory credit. (Fall, odd years)

BIOL 320. Entomology**3 hours****Prerequisites:** BIOL 151-152 or consent of instructor.

A systematic study of the insects of the world considering anatomy, physiology, behavior and relation to humans. In the laboratory, emphasis will be placed on identifying local insects and a representative collection will be turned in. Short field trips are planned as part of the laboratory work. Two lectures and one three-hour laboratory period each week. (Fall, odd years)

BIOL 411. Mammalogy**3 hours****Prerequisites:** BIOL 151-152 or consent of instructor.

A study of the mammals of the world, with emphasis on North America. Includes classroom and field study of systematics, distribution, behavior and ecology. A small collection will be required in the laboratory. Two lectures and one three-hour laboratory each week. (Fall, even years)

MICROBIOLOGY**BIOL 315. Parasitology (W)****3 hours****Prerequisites:** BIOL 151-152 or consent of instructor.

A general survey of the more important parasites of man and domestic animals. Two lectures and one three-hour laboratory period each week. (Spring, even years)

BIOL 330. General Microbiology**4 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A general study of bacteria, yeasts, molds and viruses, considering their morphology, physiology, genetics and methods of control. Study will be given to immunology topics: antigen-antibody properties, host-antigen interactions, humoral and cellular immune systems. The importance of microorganisms in environmental and applied fields will be considered. Three lectures and one three-hour laboratory period each week. (Spring)

BIOL 340. Immunology**2 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A study of the basic aspects of the human immune system including topics such as antigen and antibody structure and reactions, humoral and cell mediated immunity, hypersensitivity, immune disease and transplantation immunology. Two lectures each week. (Spring)

BASIC ZOOLOGY**BIOL 313. Embryology****3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

An introduction to embryonic development from the formation of germ cells to the development of major organs and parturition with special reference made to humans. Laboratory includes microscopic study and experiments with sea urchin, frog, and chick embryos. Two lectures and one three-hour laboratory period each week. (Fall)

BIOL 415. Comparative Anatomy**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A comparison of the anatomy of the various organ systems of vertebrates. The dogfish shark, mud puppy, cat, and/or fetal pig are used for laboratory study. Two lectures and one three-hour laboratory period each week. (Spring)

BIOL 417. Animal Histology**3 hours**

Prerequisites: BIOL 151-152 or consent of instructor.

A descriptive study of normal tissues, primarily those of man. The microscopic identification and characteristics of stained sections are emphasized in the laboratory. Two lectures and one three-hour laboratory period each week. (Spring, odd years)

BIOL 418. Animal Physiology**3 hours**

Prerequisites: BIOL 151-152; CHEM 151-152 or consent of instructor.

Functional processes used by animals in adjusting to their external environment and controlling their internal environment. Laboratories involve analysis of functions of major organ systems. Two lectures and one three-hour laboratory period each week. (Spring, even years)

SPECIAL COURSES**BIOL 365. Topics in Biology****1-3 hours**

Formal coursework designed to meet the needs or interests of students in specialty areas of Biology not covered in regular courses. May be repeated in different specialized areas.

BIOL 295/495. Directed Study

1-3 hours

Prerequisites: BIOL 151-152 or consent of instructor.

BIOL 495 open to Biology majors or minors only.

Designed for the individual student or group of students who wish to do independent study in an area of biology not listed in the regular offerings. Content and method of study must be arranged for prior to registration. This course may be repeated for credit. (Fall, Spring, Summer—on demand)

BIOL 387. Animal Behavior

3 hours

Prerequisites: BIOL 151-152 or PSYC 124 and 128.

The behavior of animals is studied with a focus on both proximate causes of behavior (mechanisms) as well as ultimate causes of behavior (survival strategies). Special importance will be placed on understanding techniques of experimental study and hypothesis testing. Topics covered include: genetic, developmental, and physiological bases of behavior; instinct and learning; communication; habitat selection; feeding, antipredatory, reproductive, and parenting strategies; mating systems, social behavior and human sociobiology. Three lectures each week. (Spring, even years)

BIOL 397. Introduction to Biological Research (W)

1 hour

Prerequisites: BIOL 151-152 or consent of instructor.

An introduction to the principles of scientific research, including the function of the scientific method, literature searches, research techniques, writing of grant proposals, and how to publish results. (Fall)

BIOL 497. Research in Biology (W)

1-2 hours

Prerequisite: BIOL 397 or consent of instructor.

Individual research under the direction of members of the staff. Problems will be selected according to the interest and experience of the student. Prior to registration, students are urged to contact all biology staff members with respect to the choice of available research problems. This course should be taken not later than the first semester of the senior year. (Fall, Spring, Summer—on demand)

EDUCATION

EDUC 438. Curriculum and Content Methods/Biology

1 hour

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction; planning, testing, and evaluating student performance; and the survey and evaluation of textbooks.

**ROSARIO BEACH
MARINE BIOLOGICAL FIELD STATION**

The Rosario Beach Marine Station is a teaching and research facility operated by Walla Walla College in affiliation with Southern College and other Adventist colleges. Located seven miles south of Anacortes, Washington, the station occupies 40 acres of beach and timberland. In addition to some of the biology courses listed in this catalog, the following are among those taught during the summer at Rosario Beach:

BIOL 200. Introduction to Marine Biology

3 hours

An overview course designed to introduce general education students to the biology and ecology of the marine environment. Course not applicable to Biology majors.

BIOL 460. Marine Ecology 3 hours

Prerequisites: BIOL 151-152.

Study of interspecific, intraspecific, and community relationships demonstrated by marine organisms.

BIOL 463. Marine Botany 3 hours

Prerequisites: BIOL 151-152.

Systematic study of plants found in Puget Sound, with a survey of marine plants from other areas.

BIOL 468. Comparative Physiology 3 hours

Prerequisites: BIOL 151-152, BIOL 412.

Comparative study of the physiology and life processes of animals with emphasis on invertebrates.

BIOL 475. Marine Invertebrates 3 hours

Prerequisites: BIOL 151-152.

A description of selected groups of marine invertebrates. The course will involve extensive collection, classification, and study of the marine invertebrates of the Puget Sound.

BIOL 516. Behavior of Marine Organisms 3 hours

Prerequisites: BIOL 151-152 and Animal Behavior or Introduction to Psychology.

A study of intra- and interspecific behaviors of marine animals and their behavioral responses to the physical environment. The course involves laboratory experiences, field observation, and a research project.

(E-1) (W) See pages 25-29 for explanation of general education requirements.

BUSINESS ADMINISTRATION

Chair: Jim Segar

Faculty: Herbert Coolidge, Peg Elkins, Richard Erickson, Lisa Gano, Jeff Leeper, Cliff Olson, Dan Rozell, Vinita Sauder, Jon Wentworth
Adjunct Faculty: Clay Crosson, Letitia Erdmann, David Henderson, Rick Mountz, Wayne VandeVere

Advisory Councils:

Accounting: Richard Center, Rhonda Champion, Richard Green, Bo Just, Calvin Wiese

Long-Term Care Administration: Glen Choban, Clay Crosson, Letitia S. Erdmann, Mark Gibson, David Henderson, Richard J. Henry Jr., Jan Rushing

Marketing: Barry Anthony, Brian Bergherm, Barb Edens, Franklin Farrow, Danny Fell, Rob Fulbright, Chris McKee

The courses and programs offered by the department are designed to prepare students for business-related careers with the church, government, industry, and in long-term health care and to train students for secretarial, office work, and office administration in the modern office.

The objectives of the department are:

1. To give the student a broad background of knowledge of the free enterprise system within a framework of moral and ethical guidelines.
2. To assist the student to develop a sound Christian philosophy toward our current economic environment and the ever-changing business world of the future.
3. To provide the student with a quality academic program with basic business skills required for initial job placement.
4. To encourage Seventh-day Adventist students to serve as workers and in positions of business leadership with organizations sponsored by this denomination.
5. To train office managers, administrative assistants, executive secretaries, and word processing operators and managers.
6. To provide the necessary academic background for entrance into most graduate degree programs in business.

The department offers a Bachelor of Business Administration degree (B.B.A.) with majors in Accounting, Management, Marketing, and Computer Information Systems and a Bachelor of Science degree (B.S.) with majors in Business Administration, Long-Term Care Administration, and Office Administration.

For those who desire a two-year program, Associate of Science degrees (A.S.) are available in Accounting and Office Administration.

ASSESSMENT

To help the graduates in Business Administration to evaluate their academic progress and to aid the department in evaluating teaching effectiveness, students who major in business related fields will be required to:

1. Participate in the college-wide testing program in general education.
2. Take the area test in business prepared by the Educational Testing Service (ETS) during the last semester of their academic program.

3. Accounting majors who plan to enter public accounting will be evaluated by their performances on the national CPA exam.

PROGRAMS IN BUSINESS ADMINISTRATION

B.B.A. Core Requirements: The B.B.A. degree requires a basic core of business courses plus a major in Accounting, Management, Marketing, or Computer Information Systems. The basic core course requirements are as follows:

B.B.A. Core (43 Hours)

| Required Courses | Hours | Required Cognates | Hours |
|---|-------|-----------------------------------|-------|
| ACCT 221-222 Principles of Accounting | 6 | MATH 120 Precalculus Algebra | 3 |
| ACCT 321 Managerial Accounting | 3 | MATH 215 Statistics | 3 |
| BUAD 128 Personal Finance | 3 | PSYC Any 3-hour class | 3 |
| BUAD 216 Computer Spreadsheet Appli | 3 | SPCH 135 Intro to Public Speaking | 3 |
| BUAD 314 Quant Meth for Bus Decision | 3 | | |
| BUAD 315 Business Finance (W) | 3 | | |
| BUAD 334 Prin of Management | 3 | | |
| BUAD 339 Business Law | 3 | | |
| BUAD 358 Legal, Ethical and Social Environment of Bus | 3 | | |
| BUAD 488 Seminar in Bus Admin | 1 | | |
| BMKT 326 Intro to Marketing | 3 | | |
| ECON 224 Prin of Economics (Macro) | 3 | | |
| ECON 225 Prin of Economics (Micro) | 3 | | |
| OFAD 315 Business Communications (W) | 3 | | |

Major—B.B.A. Accounting (66 Hours)

| Required Courses | Hours | Required Courses, cont. | Hours |
|--------------------------------------|-------|--------------------------|-------|
| BBA Core | 43 | ACCT 417 Auditing | 3 |
| ACCT 311-312 Intermediate Accounting | 8 | ACCT 421 Federal Taxes I | 3 |
| ACCT 316 Government & Fund Acctg | 3 | Electives in Accounting | 3 |
| ACCT 322 Cost Accounting | 3 | | |

For Accounting majors who wish to sit for the CPA examination in Tennessee or any other state that requires 150 semester hours to sit for the examination, the following courses are recommended in addition to the 124 hours for the BBA in Accounting degree (choose 26 hours that are not included in the 124 hours above):

| Suggested Courses | Hours | Suggested Courses, cont. | Hours |
|-----------------------------------|-------|---------------------------------|-------|
| ACCT 415 Advanced Accounting | 3 | CPTR 131 Fund of Programming | 3 |
| *ACCT 432 Auditing Applications | 3 | CPTR 217 COBOL Program Language | 3 |
| *ACCT 422 Federal Income Taxes II | 3 | ENGL 313 Expository Writing | 3 |
| ACCT 443 Accounting Systems | 3 | SPCH 136 Inter Communication | 3 |
| BUAD 495 Accounting Internship | 1-3 | | |

*These courses are required by the state of Tennessee as part of the 150 hours required for C.P.A. candidates.

Major—B.B.A. Management (64 Hours)

| Required Courses | Hours | Required Courses, cont. | Hours |
|------------------------------------|-------|---|-------|
| BBA Core | 43 | BUAD 354 Principles of Risk Mgt | 3 |
| BUAD 344 Human Resource Mgt | 3 | BUAD 363 International Business | 3 |
| BUAD 353 Management of a Small Bus | 3 | BUAD 414 Business Strategies (W) | 3 |
| | | Electives in ACCT, BMKT, BUAD/OFAD/LTCA | 6 |

Major—B.B.A. Marketing (64 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|-------------------------------|--------------|------------------------------------|--------------|
| BBA Core | 43 | BMKT 424 Marketing Strategy | 3 |
| BMKT 327 Consumer Behavior | 3 | BMKT 425 Marketing Research | 3 |
| BMKT 328 Sales Management | 3 | BMKT 497 Marketing Internship | 3 |
| BMKT 423 Promotional Strategy | 3 | CPTR 345 Computer-Aided Publishing | 3 |

**Sample Freshman Year Sequence
B.B.A. Accounting, B.B.A. Management, B.B.A. Marketing**

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|------------------------------|--------------|----------------------------------|--------------|
| BUAD 128 Intro to Business | 3 | BUAD 128 Personal Finance | 3 |
| ENGL 101 College Composition | 3 | CPTR 106 Intro to Spreadsheet | 1 |
| MATH 120 Precalculus Algebra | 3 | CPTR 116 Spreadsheet Application | 2 |
| Area B-1, Religion | 3 | ENGL 102 College Composition | 3 |
| Area C-1, History | 3 | Area F-1, Psychology | 3 |
| Area G-3, Rec Skills | 1 | Area C-1, History | 3 |
| | 16 | Area G-3, Rec Skills | 1 |
| | | | 16 |

Major—B.B.A. Computer Information Systems (65 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Cognates</u> | <u>Hours</u> |
|---------------------------------------|--------------|-----------------------------------|--------------|
| BBA Core† | 37 | MATH 120 Precalculus Algebra | 3 |
| CPTR 106 Intro to Spreadsheets | 1 | MATH 181 Calculus I | 3 |
| CPTR 116 Spreadsheet Applications | 2 | MATH 215 Statistics | 3 |
| CPTR 131-132 Fund of Programming | 6 | SPCH 135 Intro to Public Speaking | 3 |
| CPTR 217 COBOL Programming Lang | 3 | Psychology Course | 3 |
| CPTR 317 Intro to File Processing | 3 | | |
| CPTR 318 Data Structures | 3 | | |
| CPTR 319 Data Base Management Sys | 3 | | |
| CPTR 324 Systems Analysis | 2 | | |
| CPTR 325 Systems Design | 2 | | |
| CPTR 326 Systems Management | 2 | | |
| CPTR 485 Computer Science Seminar (W) | 1 | | |

†Core requirements BUAD 315 and BMKT 326 are not required for the Computer Information Systems major.

**Sample Freshman Year Sequence
B.B.A. Computer Information Systems**

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|------------------------------|--------------|-----------------------------------|--------------|
| BUAD 128 Intro to Business | 3 | CPTR 106 Intro to Spreadsheet | 1 |
| CPTR 131 Fund of Prog I | 3 | CPTR 116 Spreadsheet Applications | 2 |
| ENGL 101 College Composition | 3 | CPTR 132 Fund of Prog II | 3 |
| Area B-1, Religion | 3 | ENGL 102 College Composition | 3 |
| Area C-1, History | 3 | SPCH 135 Intro to Public Speaking | 3 |
| Area G-1, G-3, Skills | 1 | Area C-1, History | 3 |
| | 16 | Area G-1, G-3, Skills | 1 |
| | | | 16 |

Major—B.S. Business Administration (46 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|--|--------------|---|--------------|
| ACCT 221-222 Prin of Accounting | 6 | BUAD 414 Business Strategies (W) | 3 |
| ACCT 321 Managerial Accounting | 3 | BUAD 488 Sem in Business Admin | 1 |
| BUAD 216 Computer Spreadsheet Appli | 3 | BMKT 326 Intro to Marketing | 3 |
| BUAD 314 Quant Mthds for Bus Decisions | 3 | ECON 224 Prin of Economics (Macro) | 3 |
| BUAD 315 Business Finance (W) | 3 | ECON 225 Prin of Economics (Micro) | 3 |
| BUAD 334 Principles of Management | 3 | MATH 215 Statistics | 3 |
| BUAD 339 Business Law | 3 | Electives in ACCT, BMKT, BUAD, OFAD, or LTCA | 3 |
| BUAD 358 Legal, Ethical, Social Env of Business | 3 | | |

| <u>Required Cognates</u> | <u>Hours</u> |
|--------------------------------------|--------------|
| OFAD 315 Business Communications (W) | 3 |
| SPCH 135 Intro to Public Speaking | 3 |

Sample Freshman Year Sequence
B.S. Business Administration

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|-----------------------|-------|--------------|--------------------------|-------|
| BUAD 128 | Intro to Business | 3 | BUAD 128 | Personal Finance | 3 |
| ENGL 101 | College Composition | 3 | CPTR 106 | Intro to Spreadsheet | 1 |
| MATH 120 | Precalculus Algebra | 3 | CPTR 116 | Spreadsheet Applications | 2 |
| | Area B-1, Religion | 3 | ENGL 102 | College Composition | 3 |
| | Area C-1, History | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| | Area G-1, G-3, Skills | 1 | | Area C-1, History | 3 |
| | | 16 | | Area G-1/G-3, Skills | 1 |
| | | | | | 16 |

Major—B.S. Long-Term Care Administration (53 hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|---|--------------|--------------------------------------|--------------|
| ACCT 221-222 Prin of Accounting | 6 | LTCA 431 General Admin of the | 3 |
| ACCT 321 Managerial Accounting | 3 | Long-Term Care Facility | 3 |
| ECON 224 Prin of Economics (Macro) | 3 | LTCA 432 Technological Aspects of | |
| ECON 225 Prin of Economics (Micro) | 3 | Long-Term Care | 3 |
| BMKT 326 Intro to Marketing | 3 | LTCA 434 Financial Management of | |
| BUAD 216 Computer Spreadsheet Appli | 3 | Long-Term Care Facility | 3 |
| BUAD 315 Business Finance (W) | 3 | LTCA 435 Human Res Mgt and Marketing | |
| BUAD 334 Prin of Management | 3 | of Long-Term Care Facility | 3 |
| BUAD 339 Business Law | 3 | LTCA 497 Long-Term Care Admin Intern | 8 |
| BUAD 358 Legal, Eth, Social Environment of Bus | 3 | | |
| | | <u>Required Cognates</u> | <u>Hours</u> |
| | | SOCI 349 Aging and Society | 3 |
| | | SPCH 135 Intro to Public Speaking | 3 |

Sample Freshman Year Sequence
B.S. Long-Term Care Administration

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|--------------------------|-------|--------------|--------------------------|-------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| MATH 120 | Precalculus Algebra | 3 | CPTR 106 | Intro to Spreadsheet | 1 |
| SPCH 135 | Intro to Public Speaking | 3 | CPTR 116 | Spreadsheet Applications | 2 |
| | Area B-1, Religion | 3 | | Area E, Natural Science | 3 |
| | Area C-1, History | 3 | | Area C-1, History | 3 |
| | Area G-1/G-3, Skills | 1 | | Area F-1, Psychology | 3 |
| | | 16 | | Area G-1/G-3, Skills | 1 |
| | | | | | 16 |

Students who have previously earned a bachelor's degree from an accredited college or university and who have completed all classwork required for a long-term health care major other than the specialized long-term health care classes, may receive a Bachelor of Science degree with a major in long-term health care upon the completion of 20 hours of long-term health care classes (LTCA 431, 432, 434, 435, 497).

This exception to the 30-hour residence requirement applies only to those who have completed all other major course requirements for the long-term health care degree at another institution and have received a bachelor's degree. Regular admission to the LTCA program is subject to receipt of an official transcript showing completion of the bachelor's degree from the former accredited institution.

Major—B.S. Office Administration (56 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|--------------------------|-----------------------------|--------------|
| ACCT 221-222 | Principles of Accounting | 6 | CPTR 105 | Intro to Word Processing | 1 |
| BUAD 128 | Personal Finance | 3 | CPTR 106 | Intro to Spreadsheets | 1 |
| BUAD 216 | Computer Spreadsheet Appli | 3 | CPTR 107 | Intro to Data Base | 1 |
| BUAD 334 | Principles of Management | 3 | CPTR 120 | Intro to Computer-Based Sys | 3 |
| BUAD 339 | Business Law | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| BUAD 344 | Human Resources Management | 3 | | | |
| ECON 213 | Survey of Economics | | | | |
| | OR | 3 | | | |
| ECON 224 | Principles of Economics | | | | |
| OFAD 115 | Document Formatting | 3 | | | |
| OFAD 213 | Information Resources Mgt | 3 | | | |
| OFAD 216 | Business English | 3 | | | |
| OFAD 218 | Bus Math Calculations | 2 | | | |
| OFAD 221 | Office Transcription | 3 | | | |
| OFAD 223 | Office Systems Technology | 3 | | | |
| OFAD 228 | Speedwriting Techniques | 3 | | | |
| OFAD 315 | Business Communications (W) | 3 | | | |
| OFAD 317 | Office Admin Procedures | 3 | | | |
| OFAD 345 | Computer-Aided Publishing | 3 | | | |
| | Upper division electives in | | | | |
| | ACCT/BMKT/BUAD/OFAD | 3 | | | |

**Sample Freshman Year Sequence
B.S. Office Administration**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|----------------------|--------------|---------------------|----------------------|--------------|
| ENGL 101 | College Composition | 3 | BUAD 128 | Personal Finance | 3 |
| OFAD 115 | Document Formatting | 3 | ENGL 102 | College Composition | 3 |
| OFAD 213 | Information Res Mgmt | 3 | OFAD 218 | Business Math Cal | 2 |
| OFAD 216 | Business English | 3 | OFAD 221 | Office Transcription | 3 |
| PEAC 225 | Conditioning | 1 | OFAD 223 | Office Systems Tech | 3 |
| | Area B, Bible | 3 | | Area C, History | 3 |
| | | 16 | | | 17 |

Major—A.S. Accounting (32 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognate</u> | | <u>Hours</u> |
|-------------------------|----------------------------|--------------|-------------------------|--------------------------|--------------|
| ACCT 221-222 | Prin of Accounting | 6 | SPCH 135 | Intro to Public Speaking | 3 |
| ACCT 311-312 | Intermediate Accounting | 8 | | | |
| ACCT 321 | Managerial Accounting | 3 | | | |
| BUAD 126 | Intro to Business | 3 | | | |
| BUAD 128 | Personal Finance | 3 | | | |
| BUAD 216 | Computer Spreadsheet Appli | 3 | | | |
| BUAD 358 | Legal, Eth and Social | | | | |
| | Environ of Business | 3 | | | |
| ECON 213 | Survey of Economics | | | | |
| | OR | 3 | | | |
| ECON 224 | Prin of Econ (Macro) | | | | |

**Sample Freshman Year Sequence
A.S. Accounting**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|----------------------|--------------|---------------------|----------------------------|--------------|
| ACCT 221 | Prin of Accounting | 3 | ACCT 222 | Prin of Accounting | 3 |
| BUAD 126 | Intro to Business | 3 | BUAD 216 | Computer Spreadsheet Appli | 3 |
| ECON 224 | Prin of Economics | | ENGL 102 | College Composition | 3 |
| | OR | 3 | | Area F-1, Psychology | 3 |
| ECON 213 | Survey of Economics | | | Area A-2, Math | 0-3 |
| ENGL 101 | College Composition | 3 | | Electives | 4-1 |
| | Area B-1, Religion | 3 | | | 16 |
| | Area G-3, Rec Skills | 1 | | | |
| | | 16 | | | |

Major—A.S. Office Administration (41 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|-------------------------------------|--------------|
| ACCT 103 College Accounting OR | 3 |
| ACCT 221 Prin of Accounting | 3 |
| BUAD 128 Personal Finance | 3 |
| BUAD 216 Computer Spreadsheet Appli | 3 |
| CPTR 105 Intro to Word Processing | 1 |
| CPTR 106 Intro to Spreadsheets | 1 |
| CPTR 107 Intro to Data Base | 1 |
| OFAD 115 Document Formatting | 3 |
| OFAD 213 Information Resource Mgt | 3 |

| <u>Required Courses, cont.</u> | <u>Hours</u> |
|--------------------------------------|--------------|
| OFAD 216 Business English | 3 |
| OFAD 218 Business Math Calculations | 2 |
| OFAD 221 Office Transcription | 3 |
| OFAD 223 Office Systems Tech | 3 |
| OFAD 228 Speedwriting Techniques | 3 |
| OFAD 315 Business Communications (W) | 3 |
| OFAD 317 Office Admin Procedures | 3 |
| OFAD 345 Computer-Aided Publishing | 3 |

| <u>Required Cognate</u> | <u>Hours</u> |
|-----------------------------------|--------------|
| SPCH 135 Intro to Public Speaking | 3 |

**Sample Freshman Year Sequence
A.S. Office Administration**

| <u>1st Semester</u> | <u>Hours</u> |
|-------------------------------|--------------|
| ENGL 101 College Composition | 3 |
| OFAD 115 Document Formatting | 3 |
| OFAD 213 Information Res Mgmt | 3 |
| OFAD 216 Business English | 3 |
| PEAC 225 Conditioning | 1 |
| Area B, Bible | 3 |
| | 16 |

| <u>2nd Semester</u> | <u>Hours</u> |
|-------------------------------|--------------|
| BUAD 128 Personal Finance | 3 |
| ENGL 102 College Composition | 3 |
| OFAD 218 Business Math Cal | 2 |
| OFAD 221 Office Transcription | 3 |
| OFAD 223 Office Systems Tech | 3 |
| Area C, History | 3 |
| | 17 |

**MINORS IN BUSINESS, MARKETING,
AND OFFICE ADMINISTRATION****Minor—Business Administration (18 Hours)**

| <u>Required Courses</u> | <u>Hours</u> |
|--|--------------|
| ACCT 221-222 Prin of Accounting | 6 |
| BUAD 334 Prin of Management OR | 3 |
| BUAD 344 Human Resource Mgt | |
| ECON 213 Survey of Economics OR | 3 |
| ECON 224 Prin of Economics (Macro) | |
| Upper Division Electives in ACCT/BMKT/BUAD | 6 |

Minor—Marketing (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|-----------------------------|--------------|
| BMKT 326 Intro to Marketing | 3 |
| BMKT 327 Consumer Behavior | 3 |
| BMKT 424 Marketing Strategy | 3 |
| Electives in Marketing | 9 |

Minor—Office Administration (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|--------------------------------------|--------------|
| OFAD 115 Document Formatting | 3 |
| OFAD 216 Business English | 3 |
| OFAD 221 Office Transcription | 3 |
| OFAD 223 Office Systems Technology | 3 |
| OFAD 315 Business Communications (W) | 3 |
| OFAD 345 Computer-Aided Publishing | 3 |

The following courses **MUST BE TAKEN** in residence at Southern College in various Business Department majors:

| <u>B.B.A. Degree</u> | <u>Hours</u> | <u>B.S. Degree:Hours</u> | |
|----------------------------------|--------------|---------------------------------------|-----------|
| BBA Core: | | Business Administration Major: | |
| BUAD 315 Business Finance (W) | 3 | BUAD 315 Business Finance (W) | 3 |
| BUAD 358 Legal/Eth/Social | | BUAD 358 Legal/Eth/Social | |
| Envir of Bus | 3 | Envir of Bus | 3 |
| BUAD 488 Business Seminar | <u>1</u> | BUAD 414 Business Strategies (W) | 3 |
| | <u>7</u> | BUAD 488 Business Seminar | <u>1</u> |
| | | | <u>10</u> |
| Accounting Major: | | LTCA Major: | |
| ACCT 417 Auditing | <u>3</u> | LTCA 431 Gen Admin LTC Facility | 3 |
| | | LTCA 432 Tech Aspects of LTC | 3 |
| Management Major: | | LTCA 434 Fin Mgmt LTC Facility | 3 |
| BUAD 414 Business Strategies (W) | <u>3</u> | LTCA 435 Human Resource Mgmt & | |
| | | Markt LTC Facility | 3 |
| Marketing Major: | | LTCA 497 LTC Internship | <u>8</u> |
| BMKT 424 Marketing Strategy | 3 | | <u>20</u> |
| BMKT 425 Marketing Management | <u>3</u> | | |
| | <u>6</u> | | |
| | | Office Administration Majors | |
| | | (4 year and 2 year): | |
| | | OFAD 317 Office Admin Proced | 3 |

ACCOUNTING

ACCT 103. College Accounting (G-2) 3 hours

This course covers the fundamental accounting processes dealing with the book-keeping and accounting functions for the small business, professional offices, merchandising firms and service organizations. This course does not apply toward a bachelor's degree offered by the Department of Business and Office Administration. (Fall)

ACCT 221-222. Principles of Accounting (G-2) 3,3 hours

A course designed to introduce the student to the "Generally Accepted Accounting Principles." The theory of debit and credit, transaction analysis, financial statement preparation, analysis of basic balance sheet accounts, income recognition, and basic management accounting concepts are covered. Usually not open to freshmen. (Fall, Spring, Summer)

ACCT 311-312. Intermediate Accounting 4,4 hours

Prerequisites: ACCT 221-222.

An advanced course in accounting principles and theory including preparation of financial statements, intensive study and analysis of the classification and evaluation of balance sheet accounts and their related income and expense accounts. (Fall, Spring)

ACCT 316. Governmental and Fund Accounting 3 hours

Prerequisites: ACCT 221-222.

A course designed to provide an in-depth coverage of the concepts of fund accounting as they apply to governmental units and not-for-profit institutions including schools and hospitals. Attention will be given to the pronouncements of the Governmental Accounting Standards Board. (Fall)

ACCT 321. Managerial Accounting 3 hours

Prerequisite: ACCT 221-222.

A study of cost accounting fundamentals with emphasis on accounting as a managerial tool. Special attention is given to cost-volume-profit relationships, job-order costing, budgeting, standard costing, capital budgeting, cost behavior patterns, transfer pricing, and divisional performance measurement. (Fall)

ACCT 322. Cost Accounting**3 hours****Prerequisites:** ACCT 321 and MATH 215.

An in-depth study of the more technical aspects of cost accounting systems, including cost allocations, joint product and by-product accounting, actual, standard, and direct cost methods. Process cost is emphasized. The more quantitative aspects of management are covered including decision-making under uncertainty, inventory control, cost behavior and regression analysis, the variance investigation decision, and mix and yield variances. (Spring)

ACCT 415. Advanced Accounting**3 hours****Prerequisites:** ACCT 311-312.

A course designed to study the problems concerned with consolidated financial statements, partnerships, business firms in financial difficulty, estates and trusts, foreign exchange, segment reporting. (Spring)

ACCT 417. Auditing**3 hours****Prerequisites:** ACCT 311-312.

A course designed to study auditing and its related types of public accounting work including generally accepted auditing standards, professional code of ethics of the AICPA, and auditing procedures. (Fall)

ACCT 421. Federal Income Taxes I**3 hours****Prerequisite:** ACCT 221.

An introductory course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems of individuals. Primary emphasis is on Federal Income Taxes but Social Security Taxes will also be included. (Fall)

ACCT 422. Federal Income Taxes II**3 hours****Prerequisite:** ACCT 421.

A course designed to provide training in the application of the Federal Internal Revenue Code to the tax problems facing corporations, partnerships, estates, trusts. An introduction to tax research will also be included. (Spring)

ACCT 437. Auditing Applications**3 hours****Prerequisite:** ACCT 417.

An advanced course in auditing with emphasis on auditing in the EDP environment and the use of statistical techniques. A practice set will be required. (Spring)

ACCT 443. Accounting Systems I**3 hours****Prerequisite:** ACCT 222.

A study of accounting information systems. Internal control, reporting systems, computer based systems and systems development will be covered. (Fall)

MARKETING**BMKT 326. Introduction to Marketing****3 hours**

A study of the nature and functions of marketing. Includes marketing institutions, basic problems in the marketing of commodities and services, price policies, and competitive practices. (Fall, Spring)

BMKT 327. Consumer Behavior**3 hours****Prerequisite:** BMKT 326.

An analysis of the consumer decision making process where behavioral science is combined with marketing theory to enable the marketer to understand and predict consumer behavior in the various stages of the buying decision. (Fall)

BMKT 328. Sales Management 3 hours

Prerequisite: BMKT 326.

An examination of the basic sales processes necessary to achieve organizational objectives and the professional techniques used in the management of the sales force ranging from planning-recruiting to day-to-day management. (Fall)

BMKT 423. Promotional Strategy 3 hours

Prerequisite: BMKT 326.

An analysis of integrated marketing communications, with an emphasis on the role of advertising, promotion, direct marketing, and public relations. Topics include setting advertising objectives and budget, media strategy, creative strategy, and evaluating promotional effectiveness. Focus is on the design and management of a complete promotional strategy for an organization. (Spring)

BMKT 424. Marketing Strategy 3 hours

Prerequisite: BMKT 326.

A case study approach to the solving of major marketing problems of various organizations and the ability to formulate appropriate strategies in responding to the presented case problems. (Spring)

BMKT 425. Marketing Research 3 hours

Prerequisite: BMKT 326.

A study of the role of research in marketing decision-making; research design, implementation, and analysis and interpretation of research findings. Students will do research for a real business organization, concluding with a research and marketing recommendation report to the sponsoring organization. (Spring)

BMKT 497. Marketing Internship 3 hours

Prerequisites: Junior or senior status and departmental approval.

Students obtain on-the-job experience working at an ad agency, marketing department, marketing research company, wholesaler, retailer, or company sales department. A minimum of 130 clock hours of work experience is required. A two-thirds tuition waiver applies to this class, calculated according to the policy on catalog page 235.

BUSINESS ADMINISTRATION

BUAD 126. Introduction to Business (G-2) 3 hours

A course designed to provide a basic understanding of the American business system and free enterprise concepts. Business practices, business terminology and contemporary business issues are covered. Students who have 18 or more hours of credit in business courses are ineligible to take this course for credit. (Fall, Spring)

BUAD 128. Personal Finance (F-2) 3 hours

A course in basic economic concepts and business terminology and practices designed to provide the techniques to manage personal finances. Budgeting, consumerism, insurance, home ownership, and investments are included in the topics covered. (Fall, Spring)

BUAD 216. Computer Spreadsheet Applications 3 hours

Prerequisite: CPTR 116 or equivalent.

A course using a microcomputer spreadsheet to present common business data using a hands-on environment. In these business situations a spreadsheet will be the vehicle for classifying, summarizing, analyzing, and presenting data to enhance management's decision-making capability.

BUAD 314. Quantitative Methods for Business Decisions 3 hours

Prerequisite: MATH 215.

Linear Programming—simplex method, primal/dual interpretation, transportation problems. Decision theory under classical and Bayesian statistics. Game theory, inventory models and control, queuing theory. Program Evaluation and Review Technique (PERT). (Spring)

BUAD 315. Business Finance (W) 3 hours

Prerequisites: ACCT 221-222.

A study of the fundamental principles of financial organization. Emphasis on instruments of finance, policies of capitalization, problems pertaining to working capital, and corporate expansion and reorganization. (Fall, Summer)

BUAD 334. Principles of Management 3 hours

A beginning course designed to study business management including an analysis of business policies viewed from the standpoint of the functional characteristics of the management process and current ethics. (Fall, Spring)

BUAD 339. Business Law 3 hours

A course designed to study the nature and social functions of law including social control through law and the law of commercial transactions (uniform commercial code) and business organizations. (Spring)

BUAD 344. Human Resource Management 3 hours

An introduction to the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at high levels. Among topics covered are selection, training, compensation and financial incentives, work standards, techniques of supervision and leadership. (Spring)

BUAD 353. Management of a Small Business 3 hours

A course on the principles and problems of organizing and operating a small business. Topics covered will include a procedural system for establishing a new business, providing physical facilities, financing, organizing, and the management of the small business. (Fall)

BUAD 354. Principles of Risk Management 3 hours

An introductory study in the field of risk management. Material covered includes Insurance categories covered include liability, property, health and life. The primary emphasis will be on business applications, but some consideration will be given to the personal risk. (Spring)

BUAD 358. Legal, Ethical, and Social Environment of Business 3 hours

A study of how business should operate within the legal, ethical and political environment, its relationship to government agencies and control, and how individuals in leadership should relate to various social and ethical problems. (Fall)

BUAD 363. International Business 3 hours

A survey of the world environment of business including aspects of economics, cultures, trade theories, governments, exchange and finances, multinational firms' strategies. The impact on business operations of each of these is considered. (Fall)

BUAD 414. Business Strategies (W) 3 hours

Prerequisite: ACCT 222; BMKT 326; BUAD 334, 315.

This course of study is designed to give the student experience in decision-making and problem-solving through the case method. Students learn to identify, analyze, propose alternative solutions and make satisfactory decisions about business problems. Attention will be given both to internal problems and the external competitive nature of business. (Spring)

BUAD 425. Fundamentals of Investments 3 hours

Prerequisite: ACCT 222.

A practical, as well as a theoretical, approach is taken for the potential investor of institutional or personal funds through the use of problems, readings, and cases. Topics covered will include stocks and bonds in the security market, real estate, and fixed equipment investments. (Spring)

BUAD 488. Seminar in Business Administration 1 hour

This course will include the Eugene Anderson Lecture Series in business. Top men and women in their field will present lectures in insurance, real estate, finance, retailing, production management, etc. Attendance at ten lectures will be required. This course may be repeated for credit. (Spring)

BUAD 295/495. Directed Study 1-3 hours

Individual research work open only to business majors. Content to be arranged. Approval must be secured from Department Chair prior to registration.

BUAD 296/496. Business Administration Study Tour 1 hour

A trip designed to acquaint the student with important large business centers and facilities. Focus will be on financial, merchandising, advertising, and cultural organizations. An additional fee will be required to cover travel expenses.

ECONOMICS

ECON 213. Survey of Economics (C-2) 3 hours

A course designed for the general education student. It provides an understanding of the United States' mixed economy through a study of the market system, the role of money, the government's fiscal policy, and the impact of the foreign sector. This course does not apply on a major in accounting, management, or marketing. No credit is available if ECON 224 or 225 has been taken. (Fall)

ECON 224, 225. Principles of Economics (C-2) 3,3 hours

ECON 224 (Macroeconomics) deals with total employment, output and income, with inflation and recession, and with the variables that influence these conditions. ECON 225 (Microeconomics) deals with scarcity and choice, individual goods and markets, and the price mechanism showing how it automatically directs the society's resources into the most desirable uses. (Fall, Spring)

LONG-TERM CARE ADMINISTRATION

LTCA 431. General Administration of the

Long-Term Care Facility

3 hours

A study of management tools and techniques including theories of organization and management, mechanisms for planning, organizing, directing, and controlling, including a review of the history and philosophy of facilities. A review of licensing requirements, insurance, business law, human relations and public relations will also be included. (Summer)

LTCA 432. Technological Aspects of Long-Term Care 3 hours

A detailed study of the technical aspects of long-term care administration. Their relationship to other health care facilities in the total health care system, and technically related medical relationships and services. A complete review of OBRA is also included. (Summer)

LTCA 434. Financial Management of the Long-Term Care Facility 3 hours

A review of techniques and interpretation of financial information for management decision-making in the long-term care facility. (Summer)

LTCA 435. Human Resource Management and Marketing of the Long-Term Care Facility 3 hours

A study of the organization, training, motivation, and direction of employees with a view to maintaining their productivity and morale at a high level. Selection, compensation, financial incentives, work standards, and leadership are the topics that will be covered. Marketing functions, problems, services, and competitive practices will also be covered. (Summer)

LTCA 497. Long-Term Care Administration Internship 8 hours

A tailored program of management experience in a selected long-term care facility will include 400 clock hours of on-the-job experience. For a fee of \$1 per clock hour, students may take additional on-the-job experience required for national examinations in some states. The internship will be limited to an area within 600 miles of Southern College, and if it is beyond that additional fees may be imposed to cover the cost. The number of on-site visits by college personnel will depend on the past experience between the college and the facility and on the qualifications of the preceptor involved. To maintain college control, two visits per internship will be normal. With good past experience and a highly qualified preceptor, one visit will be expected. Three visits may be needed if difficulties arise. The number of required visits is at the discretion of the college. A 50 percent tuition waiver, based on the summer tuition rate, applies to this class.

OFFICE ADMINISTRATION

OFAD 115. Document Formatting (G-2) 3 hours

Prerequisite: Timed writing placement test required.

This course builds on the computerized keyboarding competencies students have developed. Emphasis is placed on increasing speed, improving accuracy, developing formatting skills, and learning production skills. Not open to challenge examination. (Fall)

OFAD 213. Information Resource Management 3 hours

Basic principles and procedures of storage and control of records involving a study of rules for alphabetic and numeric filing, with projects on methods of storage. An intensive study of automated filing, using computer software. Study of the criteria by which records are created, stored, used, and transferred. (Fall)

OFAD 216. Business English 3 hours

Pre- or corequisite: ENGL 101.

An intense study of basic grammar, punctuation, vocabulary, spelling, and word usage as necessary for the fundamentals of business communication. (Fall)

OFAD 218. Business Math Calculations (G-2) 2 hours

The use of the electronic calculator to solve basic business arithmetic operations, such as percentages, interest, discounts, fractions, merchandising, payroll, depreciation, use of credit, and understanding of the use of and graphic presentation of statistical business data. (Spring)

OFAD 221. Office Transcription 3 hours

Prerequisites: ENGL 101 and OFAD 216.

Development of skill in producing business documents, using cassette dictation. Focuses on the development of word usage and correct punctuation and document formats used in office transcription. (Spring)

OFAD 223. Office Systems Technology (G-2) 3 hours

An intensive study of a current word processing software such as Microsoft Word, WordPerfect 6.0, or Wordperfect 6.0 for Windows. Begins with the basic functions and extends to a wide variety of special and advanced features. (Spring)

OFAD 225. Professional Development (G-2) 2 hours

A program designed to provide an awareness of the "People" skills essential for job success. Topics include developing a positive self-image, ethics, time management, human relations and communications skills, organization dynamics, and professional development. (Spring)

OFAD 228. Speedwriting Techniques (G-2) 3 hours

Prerequisites: OFAD 115, 216, 221, or permission of instructor.

This course provides instruction in an abbreviated writing system based on letters of alphabet. Designed to provide a fast method of notetaking. Fundamental principles presented and applied, together with transcription practice. (Fall)

OFAD 315. Business Communications (W) 3 hours

Prerequisites: ENGL 101-102.

A study and application of the modern practices in oral and written business communications. Accuracy in grammar, spelling and punctuation, and the writing of well-knit sentences and clear paragraphs are taught as a means of effective expression in business writing. (Fall, Spring)

OFAD 317. Office Administration Procedures 3 hours

Prerequisites: OFAD 213 and 223.

A study of the integration of skills learned in previous office administration courses, together with emphasis on decision-making ability, judgment, business ethics, and initiative used in the profession. (Spring)

OFAD 345. Computer-Aided Publishing (G-2) 3 hours

This course is cross-listed with CPT 245/345, Computer Science and Technology Department. A student may receive credit for this course from only one department.

An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout. (Fall, Spring)

OFAD 230/430. Office Administration Internship 3 hours

Pre- or corequisite: OFAD 317.

Supervised on-campus work program in an administrative office of the college or related industries. Conferences scheduled with instructor during semester for guidance and evaluation. Arrangements to be made in advance with department instructor. Open only to A.S. senior/B.S. junior or senior Office Administration majors. (Fall, Spring)

OFAD 295/495. Directed Study 1-3 hours

Open only to majors in Office Administration.

Research studies related to the field of Office Administration are assigned according to the experience and interest of the student. Length of project determines credit. This course may be repeated for credit.

(C-2) (F-2) (G-2) (W) See pages 25-29 for explanation of general education requirements.

CHEMISTRY

Chair: Steven Warren

Faculty: Sterling Sigsworth

Since we and everything we touch, eat, wear, or use are made of chemicals, the study of chemistry is an exciting and yet practical pursuit. A major in Chemistry can be your key to a rewarding and challenging career in a wide variety of areas such as the basic sciences or industrial research, pharmacology, toxicology, chemical engineering, forensic chemistry, chemistry education, medical and paramedical careers, as well as many business applications such as pharmaceutical and chemical sales, patent research and patent law, marketing and consulting, to name just a few.

The B.S. degree in Chemistry is recommended in preparation for graduate study leading to research oriented careers, professional applications of chemistry, or post-secondary education. The B.A. degree is the preferred degree for high-school teaching, premedicine, or pre-paramedical fields and possibly for some of the business applications.

ASSESSMENT

To aid the Chemistry Department in evaluating teaching effectiveness, nationally standardized tests prepared by the American Chemical Society for each of the various classes are administered at the end of each course. The test results are evaluated, and teaching procedures and methods are changed as needed.

Major—B.A. Chemistry (30 hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Courses, cont.</u> | | <u>Hours</u> |
|-------------------------|-----------------------|--------------|--------------------------------|-----------------------|--------------|
| CHEM 151-152 | General Chemistry | 8 | CHEM 321 | Instrumental Analysis | 4 |
| CHEM 311-312 | Organic Chemistry | 6 | CHEM 485 | Chemistry Seminar (W) | |
| CHEM 313-314 | Organic Chemistry Lab | 2 | | OR | 1-2 |
| CHEM 315 | Analytical Chemistry | 4 | CHEM 497 | Intro to Research (W) | |
| | Chemistry Electives | 4-5 | | | |

CHEM 411-412, 413-414 Physical Chemistry and Physical Chemistry Lab may be substituted for CHEM 315, 321. The first course in Calculus is a cognate requirement. CPTR 131 Fundamentals of Programming I is strongly recommended. If CHEM 485 is not taken, then a speech class must be taken.

Sample Freshman Year Sequence B.A. Chemistry

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|---------------------|--------------|---------------------|--------------------------|--------------|
| CHEM 151 | General Chemistry | 4 | CHEM 152 | General Chemistry | 4 |
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| MATH 120 | Precalculus Algebra | 3 | MATH 121 | Precalculus Trigonometry | 2 |
| | Area B, Religion | 3 | | Area E, Biol/Phys/ | |
| | Electives or Minor | 3 | | Earth Science | 3 |
| | | 16 | | Area G-3, Rec Skills | 1 |
| | | | | Electives or Minor | 2 |
| | | | | | 16 |

Major—B.S. Chemistry (40 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|-----------------------|--------------|--------------------------|-----------------------|--------------|
| CHEM 151-152 | General Chemistry | 8 | CPTR 131 | Fund of Programming I | 3 |
| CHEM 311-312 | Organic Chemistry | 6 | MATH 181 | Calculus I | 3 |
| CHEM 313-314 | Organic Chemistry Lab | 2 | MATH 182 | Calculus II | 4 |
| CHEM 315 | Analytical Chemistry | 4 | MATH 315 | Diff Equations | 3 |
| CHEM 321 | Instrumental Analysis | 4 | PHYS 211-212 | General Physics | 6 |
| CHEM 411-412 | Physical Chemistry | 6 | PHYS 213-214 | General Physics Lab | 2 |
| CHEM 413-414 | Physical Chem Lab | 2 | | | |
| CHEM 425 | Advanced Organic Chem | 3 | | | |
| CHEM 485 | Chemistry Seminar (W) | 1 | | | |
| CHEM 497 | Intro to Research (W) | 1-2 | | | |
| | Chemistry Electives | 2-3 | | | |

German or French is highly recommended. This course of study is designed for the professional chemist. Note that Physical Chemistry will be offered one year and Analytical and Instrumental Chemistries the following year. The student should plan accordingly.

Sample Freshman Year Sequence
B.S. Chemistry

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|---------------------|--------------|---------------------|----------------------------------|--------------|
| CHEM 151 | General Chemistry | 4 | CHEM 152 | General Chemistry | 4 |
| CPTR 131 | Funds of Prog I | 3 | ENGL 102 | College Composition | 3 |
| ENGL 101 | College Composition | 3 | MATH 121 | Precalculus Trigonometry | 2 |
| MATH 120 | Precalculus Algebra | 3 | | Area B, Religion | 3 |
| | Area C, History | 3 | | Area G-3, Rec Skills | 1 |
| | | 16 | | Area F, Behav/Fam/ Health Sci | 3 |
| | | | | | 16 |

Major—B.A. Chemistry, Teacher Certification (30 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|-----------------------|--------------|--------------------------|-------------------------|--------------|
| CHEM 151-152 | General Chemistry | 8 | ERSC 105 | Earth Science | 3 |
| CHEM 311-312 | Organic Chemistry | 6 | CPTR 120 | Intro to Comp-Based Sys | |
| CHEM 313-314 | Organic Chemistry Lab | 2 | | OR | 3 |
| CHEM 315 | Analytical Chemistry | 4 | CPTR 131 | Fund of Programming | |
| CHEM 321 | Instrumental Analysis | 4 | MATH 181 | Calculus I | 3 |
| CHEM 323 | Biochemistry | 4 | PHYS 137 | Intro to Physics | 3 |
| CHEM 485 | Chemistry Seminar (W) | | PHYS 155 | Descriptive Astronomy | 3 |
| | OR | 1 | | | |
| CHEM 497 | Intro to Research (W) | | | | |
| | Chemistry Elective | 1 | | | |

Students preparing for secondary teacher certification must include CHEM 323 in the major and must also take ERSC 105 and PHYS 137. See Education Department for listing of professional requirements (28 hours, listed on page 118) and general education requirements (44-47 hours).

Minor—Chemistry (18 Hours)

Eighteen hours, six of which must be upper division.

CHEMISTRY

CHEM 103. Pre-General Chemistry (E-2) 2 hours
Prerequisite: Successful completion of two years of high school algebra or MATH 090.

Basic concepts in chemistry and mathematics as needed to begin General Chemistry. Two hours of lecture each week. Does not apply on a major or minor in chemistry. Taught second semester only. (Spring)

CHEM 111-112. Survey of Chemistry (E-2) 3,3 hours
Prerequisites: A course in high school algebra. A minimum Mathematics ACT score of 16 or a minimum grade of "C" in MATH 080 are also required.

A survey course designed to familiarize the student with the basic principles of inorganic, organic and biochemistry. Three hours of lecture each week. Does not apply to a major or minor in Chemistry. (Fall, Spring, Summer)

CHEM 113-114. Survey of Chemistry Lab (E-2) 1,1 hours
Prerequisite: Previous or concurrent enrollment in CHEM 111-112.

Laboratory material designed to illustrate the material in lectures of CHEM 111-112. Two and one-half hours of laboratory each week. Does not apply on a major or minor in Chemistry. (Fall, Spring)

CHEM 151-152. General Chemistry (E-2) 4,4 hours
Prerequisites: High school chemistry and mathematics through Intermediate Algebra.

An introduction to the fundamental laws and accepted theories along with applications to the various fields of chemistry. Three hours of lecture and three hours of laboratory each week. (Fall, Spring)

CHEM 311-312. Organic Chemistry 3,3 hours
Prerequisite: Successful completion of CHEM 151-152 or its equivalent.

Many of the fundamental functional groups of both aliphatic and aromatic carbon compounds are studied. Attention is also given to spectroscopy, relative reactivities, reaction mechanisms and physical properties of these compounds. There are three hours of lecture each week. (Fall, Spring)

CHEM 313-314. Organic Chemistry Laboratory 1,1 hours
Prerequisite: Previous or concurrent enrollment in CHEM 311-312.

Experiments are done to acquaint the student with the basic organic chemistry laboratory techniques; melting points, boiling points, recrystallization, distillation, separations, etc. The exercises also illustrate reactions that are discussed in CHEM 311-312. Four hours of laboratory each week. (Fall, Spring)

CHEM 315. Analytical Chemistry 4 hours
Prerequisite: CHEM 151-152.

A study of equilibria as it applies to analytical chemistry. Techniques of determinations, sampling, handling of data, and the detailed chemistry involved is studied in terms of quantitative determinations. Three hours of lecture and three hours of laboratory each week. This class is offered alternate years. (Fall, odd years)

CHEM 321. Instrumental Analysis 4 hours
Prerequisite: CHEM 315.

A study of the theories, techniques and instruments involved in spectrometry, chromatography, electrochemistry and radiochemistry. Three lectures and one laboratory session per week. This class is offered alternate years. (Spring, even years)

CHEM 323. Biochemistry 4 hours**Prerequisite:** CHEM 311-312.

The compounds, mechanisms, and end products of the processes of life under normal and pathological conditions are studied. Also some of the techniques for studying these areas are considered. There are four hours of lecture each week and no lab. Up to two hours of credit can be counted toward a biology major. (Spring)

CHEM 411. Physical Chemistry I 3 hours**Prerequisites:** CHEM 151-152; CPTR 131 or 218; PHYS 211-212; MATH 315, or permission of instructor.

Gases, kinetic theory, thermodynamics and reaction kinetics are studied with the main emphasis on thermodynamics. There are three hours of lecture each week. This class is not open to students who have taken PHYS 411. This is taught alternate years. (Fall, even years)

CHEM 412. Physical Chemistry II 3 hours**Prerequisite:** PHYS 211-212; MATH 315; CPTR 131 or 218, or permission of instructor.

Areas to be studied include: Schrodinger's equation as an operator form of the energy equation; boundary-matching solutions for square wells and barriers; separation-of-variables method for the hydrogen atom; electron spin and the Pauli requirement for antisymmetric wave functions, with applications to states of light atoms; variation techniques for small atoms and molecules, Hueckel and LCAO methods, or other apparatus not including perturbation theory. There are three hours of lecture per week. This class is not open to students who have taken PHYS 412. This class is offered alternate years. (Spring, odd years)

CHEM 413, 414. Physical Chemistry Laboratory 1,1 hours**Prerequisites:** CHEM 315, also CHEM 411 and 412 must be taken concurrently or previously.

Experiments chosen to illustrate material in CHEM 411, 412. One laboratory period each week. This class is offered alternate school years. (Fall, even years; Spring, odd years)

CHEM 425. Advanced Organic Chemistry 3 hours**Prerequisite:** CHEM 312.

Compound types, reactions, and intermediates not considered in Organic Chemistry will be studied. Once a sufficient background has been established, an introduction to medicinal chemistry and synthesis of medicinal compounds will be studied. (Fall)

CHEM 485. Chemistry Seminar (W) 1 hour**Prerequisite:** CHEM 311-312.

Written and oral reports are made on specific topics in the chemistry field. To be taken in the junior or senior year. (Fall)

CHEM 295/495. Directed Study 1-3 hours**Prerequisite:** CHEM 151-152.

Designed for junior and senior students who wish to do private study or for a group of students who wish a special course on topics not taught under the regular class offerings. (Fall, Spring)

CHEM 497. Introduction to Research (W)**1-2 hours****Prerequisite:** 20 hours of chemistry or permission of the instructor.

Individual research under the direction of the members of the staff. Problems are assigned according to the experience and interest of the student. Prior to registration, two semesters before graduation, students are urged to contact all chemistry staff members with respect to choice of available problems. This should be taken no later than the first semester of the senior year. (Fall, Spring)

EDUCATION**EDUC 438. Curriculum and Content Methods/Chemistry****1 hour****Prerequisite:** Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks.

(E-2) (W) See pages 25-29 for explanation of general education requirements.

COMPUTER SCIENCE AND TECHNOLOGY

Interim Chair: Merritt MacLafferty

Faculty: Jared Bruckner, John Durichek, Rick Halterman, Bradley Hyde,
Timothy D. Korson

Adjunct Faculty: John Beckett, Judy DeLay, Rodney Dixon, Clifford
Williams

Computer Science deals with the design and programming of electronic digital computers. In today's society, it is rare that the average person goes through a day without using a computer in some way. Computers are used in cars, microwave ovens, VCR's, TV's and even washing machines. On Wall Street and at NASA, huge banks of computers display the current status. Almost everyone who writes now uses a word processor and even grade-school students are being taught computer usage.

With the growing use of computers has come a growing shortage of computer professionals. While some companies must hire untrained applicants, most are seeking employees with the training, skill, and knowledge of a graduate in Computer Science. Graduates from a computer science program find jobs in industry, health care, financial institutions, education, and research.

The student should choose his area of interest and select courses from computer science and other fields that will fit well with his intended career. Some job titles are: Programmer, Systems Programmer, Systems Analyst, Team Leader, Data Base Administrator, Data Processing Manager, Software Engineer, Applications Engineer, Training Specialist, and Technical Writer.

ASSESSMENT

In the spring of the senior year all BA, BS, and BBA students in computer science will be required to take a written two-hour exam. The results of this exam are used by the department staff to evaluate class offerings as well as program requirements.

CODE OF COMPUTER CONDUCT AT SOUTHERN COLLEGE

1. Users must use only those computer accounts which have been authorized for their use.
2. Users must use their computer accounts only for the purposes for which they were authorized, as arranged with the Information Services Department.
3. Users should minimize the impact of their work on the work of other users. It is the responsibility of the user to learn efficient means of utilizing the computer.
4. Users of campus computers must not make or use unauthorized copies of copyrighted software. Shareware may be freely copied, but students who continue to use it should register and pay the specified fee. Violation of copyright is a serious crime and penalties can be severe.

5. Planting "virus" programs or otherwise misusing campus computers in a way that might destroy the work others are doing is thoughtless vandalism and will be dealt with as any other destructive activity on campus.

PROGRAMS IN COMPUTER SCIENCE

Major—B.A. Computer Science (30 Hours)

| Required Courses | Hours | Required Cognates | Hours |
|---------------------------------------|-------|-----------------------------------|-------|
| CPTR 131 Fund of Programming I | 3 | BUAD 334 Prin of Management | 3 |
| CPTR 132 Fund of Programming II | 3 | MATH 120 Precalculus Algebra | 3 |
| CPTR 217 COBOL Prog Language | 3 | MATH 215 Statistics | 3 |
| CPTR 219 Symbolic Assembler Lang | 3 | SPCH 135 Intro to Public Speaking | 3 |
| CPTR 280 Discrete Structures | 3 | | |
| CPTR 317 Intro to File Processing | 3 | | |
| CPTR 318 Data Structures | 3 | | |
| CPTR 319 Data Base Mgt Systems | 3 | | |
| CPTR 324 Systems Analysis | 2 | | |
| OR | | | |
| CPTR 325 Systems Design | | | |
| CPTR 485 Computer Science Seminar (W) | 1 | | |
| Upper Div Computer Electives | 3 | | |

Only 3 hours of CPTR 105 Intro to Word Processing, CPTR 106 Intro to Spreadsheets, CPTR 107 Intro to Data Base, CPTR 116 Spreadsheet Applications, and CPTR 117 Database applications now apply to a major in Computer Science.

Major—B.S. Computer Science (40 Hours)

| Required Courses | Hours | Required Cognates | Hours |
|---------------------------------------|-------|-----------------------------------|-------|
| CPTR 131 Fund of Programming I | 3 | BUAD 334 Prin of Management | 3 |
| CPTR 132 Fund of Programming II | 3 | MATH 120 Precalculus Algebra | 3 |
| CPTR 217 COBOL Prog Language | 3 | MATH 215 Statistics | 3 |
| CPTR 219 Symbolic Assembler Lang | 3 | SPCH 135 Intro to Public Speaking | 3 |
| CPTR 280 Discrete Structures | 3 | | |
| CPTR 317 Intro to File Processing | 3 | | |
| CPTR 318 Data Structures | 3 | | |
| CPTR 319 Data Base Mgt Systems | 3 | | |
| CPTR 324 Systems Analysis | 2 | | |
| OR | | | |
| CPTR 325 Systems Design | | | |
| CPTR 485 Computer Science Seminar (W) | 1 | | |
| Computer Electives | 13 | | |
| (6 must be upper division) | | | |

Only 3 hours of CPTR 105 Intro to Word Processing, CPTR 106 Intro to Spreadsheets, CPTR 107 Intro to Data Base, CPTR 116 Spreadsheet Applications, and CPTR 117 Database applications now apply to a major in Computer Science.

Sample Freshman Year Sequence B.A. or B.S. Computer Science

| 1st Semester | Hours | 2nd Semester | Hours |
|----------------------------------|-------|------------------------------|-------|
| CPTR 131 Fund of Prog I | 3 | CPTR 132 Fund of Prog II | 3 |
| ENGL 101 College Composition | 3 | CPTR 219 Sym Assembler Lang | 3 |
| MATH 120 Precalculus Algebra | 3 | ENGL 102 College Composition | 3 |
| OR | | Area B, Religion | 3 |
| MATH Elective | 3 | Math Elective | 3 |
| Area C-1, History | 3 | | |
| Area F, Behav/Fam/Health Science | 3 | | |
| | 15 | | 15 |

Major—B.B.A. Computer Information Systems (65 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|------------------------------|--------------|--------------------------|--------------------------|--------------|
| | BBA Core† | 37 | MATH 120 | Precalculus Algebra | 3 |
| CPTR 106 | Intro to Spreadsheets | 1 | MATH 181 | Calculus I | 3 |
| CPTR 116 | Spreadsheet Applications | 2 | MATH 215 | Statistics | 3 |
| CPTR 131-132 | Fund of Programming | 6 | SPCH 135 | Intro to Public Speaking | 3 |
| CPTR 217 | COBOL Program Lang | 3 | | Psychology course | |
| CPTR 317 | Intro to File Processing | 3 | | | |
| CPTR 318 | Data Structures | 3 | | | |
| CPTR 319 | Data Base Mgmt Sys | 3 | | | |
| CPTR 324 | Systems Analysis | 2 | | | |
| CPTR 325 | Systems Design | 2 | | | |
| CPTR 326 | Systems Management | 2 | | | |
| CPTR 485 | Computer Science Seminar (W) | 1 | | | |

†Core requirements BUAD 315 and BMKT 326 are not required for the Computer Information Systems major.

Sample Freshman Year Sequence
B.B.A. Computer Information Systems

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|----------------------|-------|--------------|--------------------------|-------|
| BUAD 126 | Intro to Business | 3 | CPTR 106 | Intro to Spreadsheet | 1 |
| CPTR 131 | Fund of Prog I | 3 | CPTR 116 | Spreadsheet Applications | 2 |
| ENGL 101 | College Composition | 3 | CPTR 132 | Fund of Prog II | 3 |
| | Area B-1, Religion | 3 | ENGL 102 | College Composition | 3 |
| | Area C-1, History | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| | Area G-1/G-3, Skills | 1 | | Area C-1, History | 3 |
| | | 16 | | Area G-1, G-3, Skills | 1 |
| | | | | | 16 |

ASSOCIATE OF SCIENCE DEGREES**Major—A.S. Computer Science (24 Hours)**

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|------------------------------|--------------|--------------------------|--------------------------|--------------|
| CPTR 131 | Fundamentals of Prog I | 3 | ACCT 221-222 | Principles of Accounting | 3 |
| CPTR 132 | Fundamentals of Prog II | 3 | ACCT 321 | Managerial Accounting | 3 |
| CPTR 217 | COBOL Prog Language | 3 | BUAD 334 | Principles of Management | 3 |
| CPTR 219 | Symbolic Assembler Lang | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| CPTR 317 | Introduction to File Proc | 3 | | | |
| CPTR 318 | Data Structures | 3 | | | |
| CPTR 319 | Data Base Management Systems | 3 | | | |
| | CPTR Electives | 3 | | | |

Sample Freshman Year Sequence
A.S. Computer Science

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|--------------------------|--------------|---------------------|--------------------------|--------------|
| ACCT 221 | Principles of Accounting | 3 | ACCT 222 | Principles of Accounting | 3 |
| CPTR 131 | Fundamentals of Prog I | 3 | CPTR 132 | Fundamentals of Prog II | 3 |
| ENGL 101 | College Composition | 3 | CPTR 219 | Symbolic Assembler Lang | 3 |
| MATH 090 | Intermediate Algebra | 3 | MATH 120 | Precalculus Algebra | 3 |
| | OR | | | Area B, Religion | 3 |
| | MATH Elective | | | | 15 |
| | Area G-3, Rec Skills | 1 | | | |
| | Electives | 3 | | | |
| | | 16 | | | |

Major—A.S. CADD Applications (34 Hours)*The CADD Applications degree requires two of the three emphasis:*

| <u>Required Courses</u> | | <u>Hours</u> | <u>Architectural Emphasis</u> | | <u>Hours</u> |
|-------------------------|------------------------------------|--------------|-------------------------------|-----------------------------|--------------|
| ART 104 | Beginning Drawing I | 3 | ART 330 | Illustration Methods | 3 |
| ENGL 101 | College Composition I | 3 | CPTE 147 | Intro to Archit & Interiors | 3 |
| ENGL 102 | College Composition II | 3 | CPTE 251 | CADD Architecture I | 3 |
| MATH 120 | Precalculus Algebra | 3 | CPTE 281 | CADD Architecture II | 3 |
| PEAC 225 | Conditioning | 1 | TECH 151 | Intro Archit Drafting/CADD | 3 |
| PHYS 137 | Introduction to Physics | 3 | | | |
| SPCH 135 | Intro to Public Speaking | 3 | <u>Graphics Emphasis</u> | | |
| | Area B, Religion | 6 | ART 125, 126 | Graphic Design Principles | 6 |
| | Area C-1, History | 3 | ART 219 | Intro to Computer Graphics | 3 |
| | Area F, Behav/Fam, Health Sciences | 2 | CPTE 245 | Computer-Aided Publishing | 3 |
| | Computer Electives | 4 | TECH 145 | Intro to Graphic Arts | 3 |
| | | | <u>Mechanical Emphasis</u> | | |
| | | | CPTE 249 | CADD Mechanical I | 3 |
| | | | CPTE 279 | CADD Mechanical II | 3 |
| | | | TECH 149 | Intro Mechanical Draw/CADD | 3 |
| | | | TECH 376 | Automation/Robotics (CIM) | 3 |
| | | | TECH 174 | General Metals | 3 |

**Sample Freshman Year Sequence
A.S. CADD Applications**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|----------------------------|--------------|---------------------|---------------------------|--------------|
| ART 104 | Beginning Drawing | 3 | ENGL 102 | College Comp II | 3 |
| ENGL 101 | College Composition | 3 | CPTE 147 | Intro to Arch & Interiors | 3 |
| MATH 120 | Precalculus Algebra | 3 | CPTE 251 | CADD Architecture I | 3 |
| TECH 149 | Intro Mech Drawing/CADD | 3 | CPTE 249 | CADD Mechanical I | 3 |
| TECH 151 | Intro Archit Drafting/CADD | 3 | PEACH 225 | Conditioning | 1 |
| | | 15 | | C-1, History | 3 |
| | | | | | 16 |

Minor—Computer Science (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|-------------------------|------------------------|
| CPTR 131 | Fund of Programming I |
| CPTR 132 | Fund of Programming II |
| CPTR 318 | Data Structures |

Of the remaining nine elective hours, three must be upper division. The minor is an excellent background for those whose profession is outside of data processing, but who will have to use the computer in their job or work closely with DP personnel. The minor is also appropriate for any student who simply has an interest in computers.

COMPUTER TECHNOLOGY**CPTE 147. Introduction to Architecture and Interiors 3 hours**

An examination of the scope and interrelationships of the professions of architecture and architectural interiors. The role of the designer in society is discussed with consideration of the opportunities for pursuing a rewarding career. Students are introduced to components of the faculty, each describing his or her teaching area. Information sources in architecture are outlined and methods of collecting, structuring and presenting data and ideas are included. Field trips are made to professional offices, manufacturers, and significant buildings and interiors. Open to all students.

CPTE 249. CADD Mechanical I (G-2) 3 hours

Prerequisite: TECH 149 or equivalent.

An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods of laboratory each week. Lecture as announced by the instructor. (Spring)

CPTE 251. CADD Architecture I 3 hours

Through tutorials, exercises, and projects the student gains working knowledge of the drafting and design capabilities of computer-aided design. Introduction to three-dimensional programs using DataCAD and other architectural programs.

CPTE 279. CADD Mechanical II 3 hours

Prerequisites: TECH 149, CPTE 249.

This course is sequential to CPTE 249 and continues the use of CADKEY. Areas covered are full model-to-drawing associativity, full 3-D design and drafting, fast 3-D rendering with smooth hidden-line removal shading, volumetric and mass property calculations, assembly design and digital prototyping.

CPTE 281. CADD Architecture II 3 hours

Prerequisites: TECH 151, CPTE 251.

This course is sequential to CPTE 251 and continues the application of CADD to the study of architecture, using the advanced features of DataCAD in problem solving in the design process of structures—single or multistory—using such features as cost estimating, roofing, framing, square foot calculations, pictorial renderings and templates, multi-levels, and walk through to enhance the presentation of plans to the customer.

CPTE 245/345. Computer-Aided Publishing (G-2) 3 hours

An introductory course in the use of the computer as an aid in publishing materials such as newsletters, flyers, programs. The course gives training in the preparation of camera-ready documents without conventional paste-up and typesetting services using specialized desktop publishing software such as Aldus PageMaker and Xerox Ventura to do page layout. (Fall, Spring)

CPTE 376. Automation and Robotics 4 hours

Prerequisites: TECH 149, 183, 249/349 or equivalent.

Basic elements and principles of computer integrated manufacturing including terminology, computer hardware/software and interfacing, system integration, flexible manufacturing and robotic applications.

COMPUTER SCIENCE

CPTR 102. Introduction to the Internet 1 hour

Basic skills required for navigating the worldwide Internet including: UNIX commands, electronic mail, FTP, downloading/uploading, Telnet, Gopher, USENET, and the World Wide Web. Configuring a PC for Internet access using shell and dialup IP connections. Fundamental citizenship/ethics issues will be discussed.

CPTR 104. Introduction to PC-DOS Usage (G-2) 1 hour

Limited to students with no computer background or permission of the instructor. It is designed to introduce the student to the functions and features of the PC-DOS as a preparation for other computer application courses. Some general information about the hardware will be presented so students may feel less intimidated about adding a new board to the computer or hooking up a new mouse. Students will learn how to format disks, manipulate files, and use many PC-DOS utilities. Does not apply toward a major or minor in computer science or satisfy the cognate requirements of other majors.

CPTR 105. Introduction to Word Processing (G-2) 1 hour

Prerequisite: A typing course or permission of instructor.

Word processing on a microcomputer including techniques for creating form letters, and using an electronic dictionary to check spelling. (Spring)

CPTR 106. Introduction to Spreadsheets (G-2) 1 hour

Prerequisite: MATH 090 or 103 or Math ACT of 22.

A course using microcomputer spreadsheet programs. The most commonly used functions will be described with simple lab problems.

CPTR 107. Introduction to Data Base (G-2) 1 hour

A course using microcomputers as electronic filing cabinets. Information retrieval, report generation, adding, deleting, and updating information. (Spring)

CPTR 116. Spreadsheet Applications (G-2) 2 hours

Prerequisite: CPTR 106.

The use of spreadsheet software on a microcomputer as an aid to financial planning and management. (Spring)

CPTR 117. Database Applications 2 hours

Prerequisite: CPTR 107

The use of database software including writing programs in the database language.

CPTR 120. Introduction to Computer-Based Systems (G-2) 3 hours

An overview of computer information systems. This survey course introduces computer hardware, software, procedures, systems, and human resources and explores their integration and application in business and other segments of society. The fundamentals of computer problem solving and programming in a higher-level programming language are discussed and applied. This course does not apply on a major in Computer Science. (Fall, Spring)

CPTR 131. Fundamentals of Programming I (G-2) 3 hours

Prerequisite: MATH 090, or MATH ACT of 22, or permission of instructor.

Control structures, data types, data representation, compiling, debugging, modularity, and standard programming algorithms are introduced, using a structured language. (Fall)

CPTR 132. Fundamentals of Programming II (G-2) 3 hours

Prerequisite: CPTR 131.

An introduction to software technology including elementary data structures for the development of reliable, modifiable programs. (Spring)

CPTR 217. COBOL Programming Language (G-2) 3 hours

Prerequisite: CPTR 131.

Semantics and syntax of COBOL. Emphasis is placed on business problems using the COBOL Language. (Fall)

CPTR 219. Symbolic Assembler Language 3 hours

Prerequisite: CPTR 131.

Computer structure, machine language, instruction execution, addressing techniques, and digital representation of data. Computer systems organization, symbolic coding and assembly systems and program segmentation and linkage. Systems and utility programs and programming techniques. Several computer projects to illustrate basic machine structure and programming techniques. (Spring)

CPTR 280. Discrete Structures 3 hours

Prerequisite: MATH 120;

Recommended: Familiarity with a programming language.

An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)

CPTR 317. Introduction to File Processing 3 hours

Prerequisite: CPTR 217.

Tape and disc operations. Includes coverage of sequential and random access files and processing techniques. Development of programs and systems of programs for batch and interactive environments. (Spring)

CPTR 318. Data Structures 3 hours

Prerequisites: CPTR 132 and MATH 120.

Stacks, recursion, queues, lists, trees, graphs, sorting and searching. (Fall)

CPTR 319. Data Base Management Systems 3 hours

Prerequisites: CPTR 318, 217; *Recommended:* CPTR 317.

Introduction to relational, hierarchical, and network approaches. Design, implementation, and management issues. (Spring)

CPTR 324. Systems Analysis 2 hours

Prerequisite: CPTR 317 or 319.

System development life cycle, system documentation through the use of both classical and structured tools and techniques for describing data flows, process flows, input and output necessary for defining logical system requirements. Structured techniques for dealing with complexity in the development of computer based information systems.

CPTR 325. Systems Design 2 hours

Prerequisite: CPTR 317 or 319.

Logical and physical system design. Hardware/Software selection and evaluation. Logical Data Base Design. Theories relating to module design, module coupling, and module strength. Techniques for reducing a system's complexity.

CPTR 326. Systems Management 2 hours

Prerequisite: CPTR 317 or 319.

This course presents management principles unique to the data processing environment. Emphasis is placed on site preparation, security, software version control, and user services.

CPTR 365. Operating Systems 3 hours

Prerequisites: CPTR 219, 132.

Computer systems components, main storage organization, instruction sets, data representation, task management and scheduling, secondary storage concepts, multi-processor systems, microprogramming, and array procedures. (Fall, odd years)

CPTR 366. Microcomputer Construction**3 hours****Prerequisites:** CPTR 219, 132.

A class with a large lab component. The student will assemble on a plug-board a complete working microcomputer. The class will cover the information necessary to design a microprocessor based computer with static or dynamic memory, ROM, interrupts, DMA, and various types of I/O. Reading manufacturers specifications and working within the timing parameters is an important part of the course. (Spring, even years—enrollment limited to 10 due to lab equipment.)

CPTR 376. Automation and Robotics**4 hours**

See CPTE 376 for course description.

CPTR 405. Organization of Programming Languages**3 hours****Prerequisites:** CPTR 217, 219.

Develops understanding of the organization of programming languages and their run time behavior. A comparative study, introducing the student to a variety of languages. (Spring, odd years)

CPTR 425. Computer Graphics**3 hours****Prerequisites:** CPTR 132; MATH 120 and 121; Recommended: MATH 181.

This course teaches the principles of generating graphical images on a computer with an emphasis on the underlying mathematical theory and its programming implementations. Topics include graphics primitives (points, lines, polygons, circles, ellipses), windowing techniques, clipping, 2-D and 3-D transformations, projections, 3-D viewing techniques, cubic interpolating and approximating curves (Bezier, B-spline, Catmull-Rom curves), bicubic 3-D surface patches, light and color, fractal curves and surfaces, hidden line and surface removal, depth sorting techniques, reflections, shading, surface mapping, ray tracing, animation techniques. (Fall, even years)

CPTR 485. Computer Science Seminar (W)**1 hour****Prerequisite:** CPTR 318 and 3 hours of CPTR credit numbered 319 or above.

Written and oral reports are made on specific topics treated in current computer science literature. Résumé writing, interviewing, application to graduate school, GRE testing, witnessing on the job and at graduate school are also discussed. The major Field Test in Computer Science by ETS will be taken as a class requirement. (Spring)

CPTR 190/490. Topics in Computer Science**1-3 hours****Prerequisite:** Permission of Computer Science staff.

Topics selected from areas of computer science not covered in other courses. May be repeated with permission.

CPTR 295/495. Directed Study**1-3 hours****Prerequisite:** Consent of instructor and department chair.

Individual or group work adjusted to meet particular needs of computer science students. May be repeated for credit up to six hours.

(G-2) (W) See pages 25-29 for explanation of general education requirements.

EDUCATION AND PSYCHOLOGY

Chair: George Babcock

Faculty: Fern Babcock, Alberto dos Santos, Robert Egbert, Jon Green, Leona Gulley, Carole Haynes, Carl Swafford

Adjunct Faculty: John Baker, Ben Bandiola, Krystal Bishop, LaVona Gillham, Kay Kuzma, Ruth Ann Wang Liu, Rita Henriquez-Roark, All K-12 staff serving as Cooperating Teachers

1996/97 Teacher Education Council: George Babcock, Chair; John Baker, Marcia Brashears, J. Carlos, Ted Evans, LaVona Gillham, Jon Green, Floyd Greenleaf, Jan Haluska, Carole Haynes, Lynelle Howson, Bob Moore, Debbie Perdue, John Perumal, Dennis Pettibone, Mary Jayne Ries, Marvin Robertson, Kermise Rowe, Carl Swafford, Gordon Swanson, William Wohlers

DEGREES OFFERED

MASTER OF SCIENCE IN EDUCATION

During the summer months the department offers a master of science in education degree. Students select one of three specialties: inclusive education, multiage/multigrade teaching, and outdoor education. Degree requirements are described in a separate Graduate Catalog, available by writing to the Office of Graduate Admissions or the Education and Psychology Department.

BACHELOR OF ARTS DEGREE IN PSYCHOLOGY

Psychology has been a stand-alone major at Southern College for more than a decade, with graduates later pursuing study in such fields as marriage and family counseling, community and school counseling, school psychology, counseling and clinical psychology, and industrial and experimental psychology—as well as business, law, dentistry, and medicine. Statistical and simulation computer software enhance student research practice and training.

At Southern College the psychology major is considered preprofessional and serves as preparation for later study at the master's and doctoral degree levels. In order to improve their chances for admission to graduate programs, students will want to (a) achieve well in psychology and general education courses, (b) take as many psychology electives as possible, (c) obtain a competitive score on graduate admission tests (usually the GRE) taken during the fall of the senior year, and (d) apply to 10 or more specific schools for graduate study.

Assessment

The comprehensive assessment of senior psychology majors (including education students who major in psychology for teacher licensure) takes place during their last academic year. Students are required to take the 16PF test, prepare a portfolio, write a position paper, and have an oral interview by the psychology or psychology and education faculty. This senior assessment must be completed to have departmental recommendation for graduation. The final assessment is graded on an Honor, Pass, or Fail basis. Results of student assessment are evaluated by the faculty with a view to changing course content as needed. A more detailed listing of requirements entitled "Senior Psychology Assessment" may be obtained from the main Education/Psychology office.

Major—B.A. Psychology (32 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|--|--------------|---------------------------------------|--------------|
| PSYC 124 Intro to Psychology | 3 | PSYC 415 Hist & Sys of Psychology (W) | 3 |
| PSYC 128 Developmental Psychology | 3 | PSYC 485 Psychology Practicum | 1 |
| PSYC 315 Abnormal Psychology | 3 | PSYC 490 Psychology Seminar | 1 |
| PSYC 346 Intro to Personality Theories | 3 | PSYC 497 Research Design & Stat II | 3 |
| PSYC 357 Psychological Testing | 3 | PSYC Electives | 6 |
| PSYC 377 Fund of Counseling (W) | 3 | | |
| | | <u>Required Cognates</u> | <u>Hours</u> |
| | | BIOL Biology Electives | 3 |
| | | CPTR Computer Electives | 3 |
| | | EDUC 297 Research Design & Stat I | 3 |

*Six (6) hours of foreign language are required for this major. Students with 2 units of high school foreign language can complete this degree in 124 semester hours. Students without 2 units of high school foreign language can complete this degree program in 130 semester hours.

For students interested in nonclinical work, six hours of electives may be selected from the following courses:

| | | | |
|-----------------------------------|---|------------------------------------|---|
| PSYC 224 Social Psychology | 3 | PSYC 384 Experimental Psychology | 3 |
| PSYC 233 Human Sexuality | 3 | PSYC 432 Industrial/Org Psychology | 3 |
| PSYC 326 Physiological Psychology | 3 | PSYC 465 Topics in Psychology | 3 |
| PSYC 349 Aging and Society (W) | 3 | PSYC 495 Directed Study | 1 |
| PSYC 387 Comparative Psychology | 3 | | |

For students interested in clinical work, six hours of electives may be selected from the following courses:

| | | | |
|--|---|-------------------------------|---|
| PSYC 224 Social Psychology | 3 | PSYC 465 Topics in Psychology | 3 |
| PSYC 233 Human Sexuality | 3 | PSYC 479 Family Counseling | 3 |
| PSYC 422 Behavior Mgmt for Adolescents | 2 | PSYC 495 Directed Study | 1 |
| PSYC 460 Group Processes | 3 | | |

Sample Freshman Year Sequence
B.A. Psychology

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|-------------------------------------|--------------|--------------------------------------|--------------|
| ENGL 101 College Composition | 3 | CPTR 105 Intro to Word Processing | 1 |
| HIST 154 Amer Hist & Institutions I | | CPTR 106 Intro to Spreadsheets | 1 |
| OR | 3 | CPTR 107 Intro to Data Base | 1 |
| HIST 174 World Civilizations I | | ENGL 102 College Composition | 3 |
| MATH 103 Survey of Math | 3 | HIST 155 Amer Hist & Institutions II | |
| PEAC Area G-3, Elective | 1 | OR | 3 |
| PSYC 124 Intro to Psychology | 3 | HIST 175 World Civilizations II | |
| RELB 125 Life & Teachings | 3 | PSYC 128 Developmental Psychology | 3 |
| | 16 | Elective | 3 |
| | | | 15 |

Minor—Psychology (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|-----------------------------------|--------------|
| PSYC 124 Intro to Psychology | 3 |
| PSYC 128 Developmental Psychology | 3 |
| PSYC Electives | 12 |
| (6 hours must be upper division) | |

DEGREES FOR TEACHING LICENSURE

Major—B. A. Psychology (32 Hours) Leading to Licensure K-8

| | |
|------------------------|---------|
| Major | 32 |
| Cognates | 4 |
| General Education | 56-62 |
| Professional Education | 34 |
| Total | 126-132 |

While this degree program is open to anyone, it is required for all those who desire to teach Kindergarten and/or lower elementary grades.

| Required Courses | Hours | Required Courses, cont. | Hours |
|--------------------------------------|-------|-------------------------------------|-------|
| PSYC 124 Intro to Psychology | 3 | PSYC 336 Lang Acquisition & Dev | 2 |
| PSYC 128 Developmental Psychology | 3 | PSYC 356 Classroom Assessment | 2 |
| PSYC 217 Psyc Found of Ed | 2 | PSYC 377 Fund of Counseling (W) | 3 |
| PSYC 230 Prin & App of Cog Dev | 2 | PSYC 421 Behavior Management | 2 |
| PSYC 240 Psyc of Excep Child & Youth | 2 | PSYC 485 Psychology Practicum | 1 |
| PSYC 297 Research Design & Stat I | 3 | PSYC 490 Psychology Seminar | 1 |
| PSYC 315 Abnormal Psychology | 3 | PSYC 497 Research Design & Stat II | 3 |
| | | Required Cognates | Hours |
| | | PETH 463 Phys Ed in Elem School | 2 |
| | | LIBR 325 Lib Materials for Children | 2 |

General Education (56-62 Hours)

| | | |
|--------|--|-------|
| AREA A | ENGL 101, 102; MATH 103 | 9 |
| AREA B | RELB, 3 hours; RELT 138, 255; U.D. RELB or RELT, 3 hrs. | 12 |
| AREA C | HIST 154, 175, 356; GEOG 204 | 12 |
| AREA D | ART 230; MUED 231; SPCH 135; ENGL 216, Foreign Lang. 0-6 | 10-16 |
| AREA E | BIOL 103; CHEM 111; ERSC 105 | 9 |
| AREA F | HLED 173 | 2 |
| AREA G | PEAC 225; PEAC elective, 1 hr | 2 |

Professional Education (34 Hours)

| | | | |
|-----------------------------------|---|------------------------------------|----|
| EDUC 135 Intro to Education | 2 | EDUC 455 Bible Methods | 2 |
| EDUC 250 Technology in Education | 2 | EDUC 456 Language Arts Methods | 2 |
| EDUC 325 Phil of Christian Ed (W) | 2 | EDUC 457 Social Studies Methods | 2 |
| EDUC 332 Teaching of Reading | 3 | EDUC 461 Pract in Multicultural Ed | 1 |
| EDUC 426 Kindergarten Methods | 2 | EDUC 463 Small Schools Seminar | 2 |
| EDUC 453 Mathematics Methods | 2 | EDUC 466 Enhanced Student Tchg K-8 | 10 |
| EDUC 454 Science & Health Methods | 2 | | |

Sample Freshman Year Sequence

B.A. Psychology Leading to Licensure K-8

| 1st Semester | Hours | 2nd Semester | Hours |
|------------------------------------|-------|---------------------------------|-------|
| ENGL 101 College Composition | 3 | BIOL 103 Prin of Biology | 3 |
| MATH 103 Survey of Math | 3 | EDUC 135 Intro to Education | 2 |
| PEAC 225 Conditioning | 1 | ENGL 102 College Composition | 3 |
| PSYC 124 Intro to Psychology | 3 | HIST 175 World Civilizations II | 3 |
| RELB 125 Life & Teachings of Jesus | 3 | HLED 173 Health and Life | 2 |
| *Area D-1, Foreign Lang | 3 | *Area D-1, Foreign Lang | 3 |
| | 16 | | 16 |

*A student who has 2 units of high school foreign language can complete this degree program in 126 semester hours.

Major—B.A. Social Science (33 Hours)**Leading to Licensure 1-8****(With Language Arts Emphasis)**

| | |
|------------------------|---------|
| Major | 33 |
| Cognates | 2 |
| General Education | 47-53 |
| Professional Education | 40 |
| Elective | 2-0 |
| Total | 124-128 |

This degree program is required for those who wish to teach grades 1 through 8 and who want a Language Arts emphasis; however, the program is open to anyone.

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Courses, cont.</u> | | <u>Hours</u> |
|-------------------------|------------------------------|--------------|--------------------------------|-----------------------------|--------------|
| ENGL 205 | Grammar & Ling for Tchrs | 3 | HIST 356 | Natives and Strangers | 3 |
| ENGL 216 | Approaches to Literature | 3 | LIBR 325 | Libr Materials for Children | 2 |
| ENGL 313 | Expository Writing | 3 | PSYC 124 | Intro to Psychology | 3 |
| | OR | 3 | PSYC 128 | Developmental Psychology | 3 |
| ENGL 314 | Creative Writing | 3 | PSYC 230 | Princ & App of Cog Dev | 2 |
| ENGL U.D. | Lit Elective (upper div - W) | 3 | PSYC 297 | Research Design & Stat I | 3 |
| HIST 154 | American Hist & Inst | 3 | PSYC 336 | Lang Acq & Dev | 2 |
| | | | <u>Required Cognate</u> | | <u>Hours</u> |
| | | | PETH 463 | Phys Ed in Elem School | 2 |

General Education (47-53 Hours)

| | | |
|--------|--|------|
| AREA A | ENGL 101, 102; MATH 103 | 9 |
| AREA B | RELB, 3 hours; RELT 138, 255; U.D. RELB or RELT, 3 hours | 12 |
| AREA C | HIST 175; GEOG 204 | 6 |
| AREA D | ART 230; MUED 231; SPCH 135; Foreign Lang. 0-6 | 7-13 |
| AREA E | BIOL 103; CHEM 111; ERSC 105 | 9 |
| AREA F | HLED 173 | 2 |
| AREA G | PEAC 225, PEAC course, 1 hr | 2 |

Professional Education (40 Hours)

| | | | | | |
|----------|-----------------------------|---|----------|---------------------------|----|
| EDUC 135 | Intro to Education | 2 | EDUC 453 | Mathematics Methods | 2 |
| EDUC 217 | Psy Foundations of Ed | 2 | EDUC 454 | Science & Health Methods | 2 |
| EDUC 240 | Ed for Exceptional Children | 2 | EDUC 455 | Bible Methods | 2 |
| EDUC 250 | Technology in Education | 2 | EDUC 456 | Language Arts Methods | 2 |
| EDUC 325 | Phil of Christian Ed (W) | 2 | EDUC 457 | Social Studies Methods | 2 |
| EDUC 332 | Teaching of Reading | 3 | EDUC 461 | Pract in Multicultural Ed | 1 |
| EDUC 356 | Classroom Assessment | 2 | EDUC 463 | Small Schools Seminar | 2 |
| EDUC 421 | Behavior Management | 2 | EDUC 467 | Enhanced Student Tchg 1-8 | 10 |
| | | | | Electives | 2 |

Sample Freshman Year Sequence**B.A. in Social Science****Leading to Licensure 1-8****(Language Arts Emphasis)**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|-----------------------|--------------|-------------------------|------------------------|--------------|
| ENGL 101 | College Composition | 3 | BIOL 103 | Prin of Biology | 3 |
| MATH 103 | Survey of Math | 3 | EDUC 135 | Intro to Education | 2 |
| PEAC 225 | Conditioning | 1 | ENGL 102 | College Composition | 3 |
| PSYC 124 | Intro to Psychology | 3 | HIST 175 | World Civilizations II | 3 |
| RELT 125 | Life & Tchge of Jesus | 3 | HLED 173 | Health and Life | 2 |
| | | 3 | *Area D-1, Foreign Lang | | 3 |
| | | 16 | | | 16 |

*A student who has 2 units of high school foreign language may take 2 hours of electives in place of additional foreign language. Some of the hours listed for the summer session may be taken during the time when foreign language would normally be taken.

**Major—B.S. Science and Math Studies (40 Hours)
Leading to Licensure 1-8**

| | |
|------------------------|-----|
| Major | 40 |
| Cognate | 2 |
| General Education | 44 |
| Professional Education | 38 |
| Total | 124 |

This degree program is required for those who wish to teach grades 1 through 8 and who want a Science/Math emphasis; however, the program is open to anyone.

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|---|--------------|---|--------------|
| BIOL 103 Prin of Biology | 3 | MATH 121 Precalculus Trigonometry | 2 |
| BIOL 424 Issues of Nat Sci/Religion | 3 | MATH 475 Mathematics in the Sciences | 1 |
| CHEM 111 Survey of Chemistry | 3 | PHYS 137 Intro to Physics | 3 |
| ERSC 105 Earth Science | 3 | PSYC 230 Prin & Appls Cog Dev | 2 |
| HIST 356 Natives and Strangers | 3 | PSYC 240 Psyc of Excep Children & Youth | 2 |
| LIBR 325 Library Materials for Children | 2 | PSYC 297 Research Design & Stat I | 3 |
| MATH 103 Survey of Mathematics | 3 | PSYC 356 Classroom Assessment | 2 |
| MATH 120 Precalculus Algebra | 3 | PSYC 421 Behavior Management | 2 |

| <u>Required Cognate</u> | <u>Hours</u> |
|-------------------------------------|--------------|
| PETH 463 Phys Ed in the Elem School | 2 |

General Education (44 Hours)

| | |
|---|----|
| AREA A ENGL 101, 102 | 6 |
| AREA B RELB, 3 hours; RELT 138, 255; U.D. RELB or RELT, 3 hrs | 12 |
| AREA C HIST 154, 175; GEOG 204 | 9 |
| AREA D ART 230; MUED 231; SPCH 135; ENGL 216 | 10 |
| AREA E Included in the major | 0 |
| AREA F HLED 173; PSYC 128 | 5 |
| AREA G PEAC 225, PEAC elective (1 hour) | 2 |

Professional Education (38 Hours)

| | | | |
|-----------------------------------|---|------------------------------------|----|
| EDUC 135 Intro to Education | 2 | EDUC 454 Science & Health Methods | 2 |
| EDUC 217 Psyc Foundations of Ed | 2 | EDUC 455 Bible Methods | 2 |
| EDUC 250 Technology in Education | 2 | EDUC 456 Language Arts Methods | 2 |
| EDUC 299 Outdoor Ministries | 2 | EDUC 457 Social Studies Methods | 2 |
| EDUC 325 Phil of Christian Ed (W) | 2 | EDUC 461 Pract in Multicultural Ed | 1 |
| EDUC 332 Teaching of Reading | 3 | EDUC 463 Small Schools Seminar | 2 |
| EDUC 364 Environmental Ed | 2 | EDUC 467 Enhanced Student Tchg 1-8 | 10 |
| EDUC 453 Mathematics Methods | 2 | | |

**Sample Freshman Year Sequence
B.S. Science and Math Studies**

Leading to Licensure 1-8

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|---|--------------|---------------------------------|--------------|
| ENGL 101 College Composition | 3 | BIOL 103 Prin of Biology | 3 |
| HIST 154 American Hist & Institutions I | 3 | EDUC 135 Intro to Education | 2 |
| MATH 103 Survey of Math | 3 | ENGL 102 College Composition | 3 |
| PEAC 225 Conditioning | 1 | HIST 175 World Civilizations II | 3 |
| PSYC 128 Developmental Psych | 3 | HLED 173 Health and Life | 2 |
| RELB 125 Life & Tchgs of Jesus | 3 | RELT 138 Adventist Heritage | 3 |
| | 16 | | 16 |

Minor—Education (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|--------------------------------------|--------------|
| EDUC 135 Intro to Education | 2 |
| EDUC 217 Psyc Foundations of Ed | 2 |
| EDUC 240 Ed for Excep Childr & Youth | 2 |
| EDUC Electives | 11 |
| (6 hours must be upper division) | |

This minor does not automatically lead to either elementary or secondary certification, both of which require a baccalaureate degree and completion of professional education courses for licensure. See the Requirements for Certification beginning on page 118.

TEACHER EDUCATION PROGRAMS

Southern College has approved teacher certification programs at four levels:

K-8

B.A. in Psychology Leading to Licensure

1-8

B.A. in Social Science Leading to Licensure
(Language Arts Emphasis)

B.S. in Science and Math Studies Leading to Licensure

K-12

Health/Physical Education

Music Education

7-12

Biology Education

Chemistry Education

English Education

History Education

Mathematics Education

Physics Education

Religious Education

Assessment

Assessment of senior Education majors takes place during their **full semester of student teaching**. It involves continuous monitoring of the student's classroom performance in both verbal and written feedback. Senior assessment consists of two phases.

Phase One, **Formative Evaluation**, consists of continual daily monitoring and feedback. The cooperating teacher provides informal conferences and a one-hour weekly formal conference with anecdotal records. The Southern College Formative Evaluation Form is completed by the college supervisor and the cooperating teacher.

Phase Two, **Summative Evaluation**, is completed by both the cooperating teacher and the college supervisor. The instrument used to record the student's skills and behaviors is the Southern College Summative Evaluation Form. The student teacher is also evaluated by his/her students when they complete the Student Evaluation of the Student Teacher. A self-evaluation is completed by the student through a videotaped lesson. The student and the college supervisor critique his/her videotaped performance.

The final letter grade for the student's performance is decided by the Education Faculty. Failure to complete student teaching with a satisfactory grade of C or above results in students being reassigned for an additional practicum.

Graduate follow-up is carried out through the Southern College Teacher Education Evaluation instrument completed by the first-year teacher. The Supervisor Evaluation of Southern College Graduates is completed by the student's employer. Feedback from these instruments is used by the Education Department staff to make necessary program changes.

In addition to the above, education students obtaining a psychology degree must fulfill the assessment procedures listed on page 107.

Philosophy and Objectives

The Department of Education and Psychology is the unit duly authorized to prepare teachers who meet certification requirements for public, church related, and other private elementary and secondary schools.

The unit subscribes to the philosophy that man was created in the image of God but as a result of willful disobedience sin has marred his God-given attributes and divine likeness. This philosophy recognizes that the object of education is also the object of redemption — to restore in man the image of his maker and bring him back to the perfection in which he was created. Thus the work of redemption is also the work of education, involving the development of the whole person — physical, mental, spiritual, and social.

The teacher education programs in the unit are founded upon the basic assumption that there is a body of information, research, and practice that make up the knowledge base for the teaching profession and that acquisition of this knowledge is a significant part of the teacher's preparation. The unit further confirms the belief that a teacher should be a good example in health, intellect, and character. This program of teacher education is guided by the following statement of mission:

Statement of Mission

The mission of the Department of Education and Psychology at Southern College of Seventh-day Adventists is to prepare, primarily for the Seventh-day Adventist school system, professional educators at both undergraduate and graduate levels who can function effectively in a culturally pluralistic society and who are dedicated to assisting students in reaching their maximum potential in service to God and man. Additionally, it is the mission of the Department of Education and Psychology to prepare psychology students for graduate school to become Christian counselors and psychologists who are professionally equipped to deal ethically and with empathy and love to those who need healing of mind and soul.

Objectives of the Teacher Education Program

The teacher education program at Southern College of Seventh-day Adventists is designed to help the teacher candidate develop personal values and acquire the knowledge, skills, and competencies needed to function effectively in the teacher's role as a person, a facilitator of learning, a practitioner, and a professional.

The Teacher As a Person

To promote the personal development of the prospective teacher (which includes physical, aesthetic, intellectual, and moral values) by guidance and advisement through general education which results in:

1. an understanding, appreciation, and enjoyment of man's creative activity in the humanities, social, and natural sciences;
2. a development of personal values that recognize our pluralistic cultural heritage as well as individual worth and integrity and brotherhood of mankind under God;
3. the ability to communicate ideas clearly and effectively in reading, writing, speaking, and listening;
4. an appreciation of the value of health and the importance of health practices in home and family life.

The Teacher As a Facilitator of Learning

To provide a set of educational experiences that will enable the teacher candidate to master the skills in:

5. planning curriculum encounters with learners with appropriate materials and instructional strategies;
6. identifying learning objectives at appropriate levels;
7. using diagnostic and evaluation strategies;
8. handling classroom management and reinforcement strategies;
9. applying principles of human growth and development and theories of learning to classroom situations;
10. integrating faith and learning, along with emphasizing character development;
11. recognizing and encouraging creativity and the maximum possible development of student abilities.

The Teacher As a Practitioner

To maintain a learning environment that is conducive to acquiring the knowledge, skills and competencies that characterize successful practitioners through:

12. enhancement of positive attitude toward self, intellectual curiosity, and independent critical thinking;
13. continuing experimentation and innovation with new pedagogical practices and basic tools of learning;
14. utilization of translatable research;
15. on-campus instruction and off-campus field experiences in public and private schools.

The Teacher As a Professional

To provide a social-emotional climate and opportunities for the development of leadership skills while encouraging attitudes and experiences that foster professional growth by:

16. participating actively in the campus student education association;
17. becoming familiar with the professional organizations and their journals and the nature of the articles reported in them;
18. keeping abreast with developments in education, school reform and legislation;
19. participating in activities that enhance church, home, and community relationships;

20. demonstrating a genuine interest and concern for the physical, mental, social, and spiritual development of the learner.

Advisement

The major goal of the advisement process is to orient the teacher candidate with the total teacher education program, with major emphasis on its three components, namely, general education, professional education, and specialty studies. This is accomplished by the academic adviser as s/he interacts with his/her advisees during advisement sessions.

ADMISSION PROCEDURES

Admission to Southern College does not automatically enroll the student into teacher education. There are three stages that students must go through to be fully accepted in the teacher education program.

A. Initial Admission to the Teacher Education Program

Each student accepted at Southern College who indicated that teaching is his/her professional objective is assigned an educational program adviser by the Chair of the Department of Education and Psychology in cooperation with the advisement coordinator in the Records Office. The advisers assist in planning a student's academic program each year and guide their advisees through the stages of the Teacher Education Program. Advisers and advisees should work closely to follow the professional sequence of courses. Students assume responsibility for making necessary applications, meeting the requirements, and other relevant deadlines.

The first semester of the sophomore year, but not later than the second semester of the sophomore year, the student should file a formal application for initial admission to the Teacher Education Program. Application forms may be obtained from the department secretary in Summerour Hall. Transfer students wishing to enter the Teacher Education Program should file an application after the first year in residence. Upon application, a file is set up for each applicant containing relevant information to the student's candidacy. To be initially admitted, all the following criteria must be met:

1. Be in residence at the College.
2. Submit an autobiography in your own handwriting containing anecdotal information on why you decided to pursue a career in teaching.
3. Have an overall grade point average of 2.50.
4. Have completed ENGL 101-102 with a minimum grade of C-.
5. Show evidence of physical, mental, and moral fitness.
6. Have successfully completed EDUC 135 with a minimum grade of C-.
7. Have passed the PRAXIS I (Pre-Professional Skills Test) which is the entrance competency test required by the State of Tennessee. An enhanced ACT composite score of 22 or above will EXEMPT the student from the Pre-Professional Skills Test.
8. Have taken the 16 Personality Factor Test.
9. Have obtained recommendations from the Vice President of Student Services and the student's academic adviser.

10. Have received a score of 20 or higher on the Reading Section of the ACT, or passed the Nelson-Denny Reading Test with a standing score in the 50th percentile, or, in consultation with the department chair, satisfactorily completed a remedial program.

Applicants meeting the above criteria are recommended by the Education faculty to the Teacher Education Council. The student will be informed in writing as to the status of the application for admission following the action of the Teacher Education Council.

B. Candidacy and Retention in Teacher Education

After the applicant has been admitted to the Teacher Education Program, his/her progress will be reviewed by the Candidacy Committee, consisting of the adviser, a departmental representative, and one elementary or secondary teacher. As a teacher candidate, the applicant will be given an opportunity to interact with the Candidacy Committee in a non-threatening atmosphere. During the interview the candidate can strengthen his/her commitment to teaching or express his/her concerns and questions about the teaching profession.

Retention in the teacher education program is contingent on successful completion of courses attempted and maintenance of the academic standard required for initial admission to the program. Teacher candidates are expected to maintain consistent personal representation of the standards and objectives of Southern College and the teacher education program.

C. Authorization to do Student Teaching

After acceptance into the Teacher Education Program and before the first semester of the senior year, the teacher candidate must file a formal application with the faculty of the Department of Education and Psychology for authorization to do student teaching. Application forms may be obtained from the department secretary in Summerour Hall. A late application may delay the student teaching experience. Student teaching is regarded as the culminating experience of the Teacher Education Program.

The following criteria are considered for each applicant:

1. Completion of all professional education courses
2. Cumulative GPA of 2.50
 - Major Studies GPA of 2.50
 - Professional Education GPA of 2.50
3. Evidence of good physical and mental health
4. Adherence to standards and objectives of Southern College and the Teacher Education Council
5. Formal application for student teaching at least one semester in advance
6. Proof of current certification in First Aid/CPR
7. Recommended by the Education faculty
8. Approval of the Teacher Education Council

Teacher candidates who meet the above criteria are recommended by the Education and Psychology faculty to the Teacher Education Council. Candidates are informed in writing as to the status of their application following the action of the Teacher Education Council.

APPEAL PROCEDURES

Criteria and standards for admission to teacher education are explicit, but allow for second chance attempts. Courses may be repeated to raise GPA or students may follow the Grievance Procedures found under Academic Policies (page 40). Also, students who do not meet all the criteria required to do Student Teaching may appeal to the Appeals Committee. The applicant who has to take this alternative route will be evaluated on the bases of eminence and outstanding strengths in several other criteria rather than minimal meeting of those criteria. The Appeals Committee makes recommendation to the Teacher Education Council who determines the final action. Any applicant who determines to follow this alternative policy must seek counsel from the Chair of the Department of Education and Psychology.

TEACHER LICENSURE

Licensure and certification are synonymous terms for the process of granting legal authorization to teach in the public or private elementary or secondary schools of a state or of the Seventh-day Adventist Church based on meeting predetermined qualifications. Certification has been established to give professional status to qualified teachers and to assure school boards and parents that the teacher is well prepared.

WHO CAN OBTAIN CERTIFICATION?

Every student who successfully completes the requirements for teaching in the elementary or secondary school and graduates from Southern College will receive recommendation for certification based upon the following criteria:

- A. Successful completion of student teaching assignment(s)
- B. Satisfactory completion of all credential requirements
- C. Recommendation of major departments
- D. Satisfactory scores on the core battery and appropriate specialty area of the PRAXIS National Teacher Examinations

Certification is not automatic. The eligible candidate must make the necessary application to the appropriate union conference for denominational certification and to the specific state department of education where the candidate expects to teach. Information regarding certification is available through the Southern College certification officer. Since teacher certification regulations are always in the process of change, graduating teacher education candidates are urged to make their applications for certification immediately. If the candidate does not make application within two years for denominational certification, or within three years for Tennessee State certification, s/he will have to take additional courses before certification can be issued.

WHAT CERTIFICATES MAY BE OBTAINED?

- A. Teacher's Certificate (Tennessee)

A certificate is issued on the basis of a minimum of a Bachelor's Degree with a major in at least one subject teaching field and the completion of an approved teacher education program.

B. Basic Certificate (SDA denominational)

Required by the Department of Education of the North American Division of Seventh-day Adventists. This three-year denominational certificate is issued on the basis of completing the following courses in addition to the above requirements:

| | | |
|----------|-------------------------------|---------|
| RELT 255 | Christian Beliefs | 3 hours |
| RELT 138 | Adventist Heritage | 3 hours |
| RELB | Biblical Studies | 3 hours |
| REL | Upper division elective | 3 hours |
| HLED 173 | Health and Life | 2 hours |

REQUIREMENTS FOR CERTIFICATION

Candidates for state certification must complete the appropriate teacher preparation curriculum. This consists of three components: general education, professional education, and major studies.

A. General Education:

This component represents that portion of the total teacher education program designed to foster the development of those competencies that are basic to all life's responsibilities and provide intellectual foundation in the liberal arts. Students pursuing a teacher education curriculum must work closely with their advisers for guidance in the selection of general education courses that are appropriate to their individual needs. Relevant courses are listed in this catalog under the seven main areas of the general education requirements, pages 25-29.

B. Professional Education:

Elementary: The courses for the three elementary programs are included with the degree requirements listed on pages 109-111 of this catalog.

Secondary: The following courses are required for secondary teaching certification. In order to be eligible for certification, students must have a minimum grade point average of 2.50 in the major, professional education, and cumulative.

| | | |
|--------------|--|-----------------|
| EDUC 135 | Intro to Education | 2 hours |
| EDUC 217 | Psychological Foundations of Education | 2 hours |
| EDUC 240 | Education for Exceptional Children and Youth ... | 2 hours |
| EDUC 250 | Technology in Education | 2 hours |
| EDUC 325 | Philosophy of Christian Education (W) | 2 hours |
| EDUC 356 | Classroom Assessment | 2 hours |
| EDUC 422 | Behavior Management for Adolescents | 2 hours |
| EDUC 434 | Reading in Content — Secondary | 2 hours |
| EDUC 437 | Curriculum and General Methods, Grades 7-12 ... | 1 hour |
| EDUC 438 | Curriculum and Content Methods, Grades 7-12 .. | 1 hour |
| EDUC 468 | Enhanced Student Teaching 7-12 or | |
| EDUC 469 | Enhanced Student Teaching K-12 | 10 hours |
| TOTAL | | 28 hours |

C. Major Studies:

Major studies requirements: Preparation for teaching in the elementary school requires a B.A. in Psychology leading to licensure K-8, B.A. in Social Science leading to licensure 1-8, or a B.S. in Science and Math Studies leading to licensure 1-8. See listings of course sequences on pages 109-111 of this bulletin.

The following departments offer majors that can be combined with professional education courses resulting in licensure to teach:

| | |
|---------------------------|-------------|
| Biology | History |
| Chemistry | Mathematics |
| Education & Psychology | Music |
| English | Physics |
| Health/Physical Education | Religion |

Students are to complete the degree requirements as specified by their chosen major plus the professional education courses as listed under B above.

D. Miscellaneous Information Relative to Teacher Training:

1. Because of time commitments during the student teaching experience, no additional courses may be taken. The Education faculty will endeavor to provide the opportunity for student teachers to teach in off-campus student teaching centers. It is expected that any student entering student teaching will have completed all other courses.
2. Correspondence credit will be accepted to the extent of one-fourth of the credit required for the certificate provided that no more than four semester hours in education are applied on the professional education requirement. If personal circumstances demand a correspondence course, a petition must be filed with the Department of Education and Psychology and its approval obtained before registering for the course. The course must be completed and the grade filed in the Records Office before student teaching is begun.
3. A major is not always required for additional endorsements. A minor may be acceptable as a second field for SDA certification.
4. Students should contact the Department of Education and Psychology for information on specific requirements in the area(s) of endorsement sought.

**PROGRAM FOR ELEMENTARY ENDORSEMENT
FOR INDIVIDUALS MEETING REQUIREMENTS
FOR SECONDARY CERTIFICATION**

Twenty semester hours selected from the courses listed below are required. A minimum of 12 semester hours from these courses must be completed after the date the applicant became eligible for the original certificate endorsed in a subject area in grades 7-12 or in a subject area in grades K-12. Grades must be C- or better.

A. Required Courses:

| | | |
|----------|------------------------|---|
| EDUC 332 | Teaching of Reading | 3 |
| EDUC 453 | Mathematics Methods | 2 |
| EDUC 455 | Bible Methods | 2 |
| EDUC 456 | Language Arts Methods | 2 |
| EDUC 457 | Social Studies Methods | 2 |

B. Six semester hours to include three of the following four areas:

| | | |
|----------|---|---|
| ART 230 | Intro to Art Experiences | 2 |
| EDUC 454 | Science and Health Methods in Elem School | 2 |
| MUED 231 | Music and Movement | 2 |
| PETH 463 | Physical Education in the Elementary School | 2 |

- C. Two semester hours must be in Education of Exceptional Children if not previously successfully completed. If Education of Exceptional Children or any of the above required courses in Section A or Section B have been previously completed, the remaining semester hours must be taken from the following courses:
 - a. Library Materials for Children
 - b. Health
 - c. Geography
- D. Two to three semester hours of student teaching.

PROGRAMS FOR SECONDARY ENDORSEMENT FOR INDIVIDUALS MEETING REQUIREMENTS FOR ELEMENTARY EDUCATION CERTIFICATION

The student must take ten hours of credit after the date the original certificate was earned. Six semester hours of the ten must be in specialized professional education appropriate to grades 7-12 and must include a minimum of 2 semester hours of appropriate methods. The credit for at least one area of endorsement in grades 7-12 may have been earned at any time prior to the application for adding the endorsement. **Grades must be C- or better.** The student must also fulfill the following:

1. Meet the State of Tennessee requirements for endorsement in at least one teaching field (this will vary from 18 to 51 hours).
2. A minimum of six semester hours of professional education including:
 - A. EDUC 437 or EDUC 438.
 - B. Any other courses designated by the Department of Education and Psychology.
3. Four semester hours of electives.

EDUCATION

EDUC 134. Principles of Christian Education 2 hours

An overview of the purposes, administrative organizations and operations of school systems, identified as Christian in purpose, with particular emphasis on the Seventh-day Adventist educational system.

EDUC 135. Introduction to Education 2 hours

Required of all students seeking elementary or secondary licensure. Designed to acquaint the student with the experiences, qualifications, and duties of the classroom teacher. Students will spend at least twenty (20) hours during the semester observing and participating in local elementary or secondary classrooms.

EDUC 217. Psychological Foundations of Education (F-1) 2 hours

The study of psychological information and its application to the processes of teaching and learning. The course covers subjects such as theories of learning, pupil characteristics, pupil variability, motivation, classroom management, information processing and assessment.

EDUC 240. Education for Exceptional Children and Youth 2 hours

A course in the education of exceptional children in the regular classroom. It includes a study of the wide range of factors contributing to the exceptionality, the identification of exceptional children and youth by the classroom teacher and the consequent classroom implications. Twenty (20) hours of clinical and field experience will be required.

EDUC 250. Technology in Education (G-2) 2 hours

An introduction to applications of technology which will assist in efficient management and effective learning within the school environment. Experience will be gained in the development and use of audio-visual materials including computers and educational software.

EDUC 297. Research Design and Statistics I 3 hours

See PSYC 297 for course description. (Credit not permitted if PSYC 297 has been taken.)

EDUC 299. Outdoor Ministries 2 hours

This course is designed to assist teachers and youth leaders in the development of relationships between children and nature for the purpose of enriching the spiritual life of children and youth. The student will learn to plan object lessons from nature, leadership in pathfinding, summer camp ministries and how to enliven Sabbath School programs with nature. A variety of laboratory skills will be required in area school and church programs (up to 30 hours). A knowledge of nature is suggested but not required.

EDUC 325. Philosophy of Christian Education (W) 2 hours

A study of the scriptural principles and philosophic base of Christian education as expounded by E. G. White and implemented by the Seventh-day Adventist Church.

EDUC 332. Teaching of Reading 3 hours

Prerequisite: Admission to Teacher Education.

Survey of the materials and methods used in teaching reading in the elementary grades. It emphasizes the approaches to teaching reading including phonics instruction.

EDUC 356. Classroom Assessment 2 hours

Prerequisite: Admission to Teacher Education or permission of department chair. The development of the preservice teachers' ability to make sound educational decisions in the assessment of classroom learning and testing. Discussion will include current and future trends, test construction, and appropriate use of test results. An additional 15 hours of clinical and field experience are required.

EDUC 364. Environmental Education 2 hours

This course is designed to give "hands-on" learning in the use of the outdoor classroom. Recent trends in methods, materials, strategies, laboratory techniques, assessment, and professional guidelines for the elementary, junior, and senior high school curriculum will be covered. Up to four (4) days field experience will be required as a part of the class project. There will be a charge for the trip.

EDUC 421. Behavior Management 2 hours

Prerequisite: Admission to Teacher Education.

Examines basic principles of discipline applicable to elementary school children. It reviews a variety of philosophical approaches to discipline, and identifies and role plays practical procedures for administrators and practitioners by which to attain and maintain acceptable management practices. In addition, the course seeks to probe the concept of discipline as a way of life in which the individual is assisted in developing a satisfactory and fulfilling lifestyle. This course requires five (5) hours of clinical experiences and ten (10) hours of field experiences. (Credit not permitted if PSYC 421 has been taken.)

EDUC 422. Behavior Management for Adolescents 2 hours

Prerequisite: Admission to Teacher Education.

A study of basic principles of discipline applicable to the teenage years. It reviews a variety of philosophical approaches to discipline, and identifies practical procedures for administrators and practitioners to attain and maintain acceptable management practices. In addition, the course seeks to probe the concept of discipline as a way of life in which the individual is assisted in developing a satisfactory and fulfilling lifestyle. This course requires five (5) hours of clinical experiences and ten (10) hours of field experiences. (Credit not permitted if PSYC 422 has been taken.)

EDUC 426. Kindergarten Methods 2 hours

Prerequisite: Admission to Teacher Education.

Designed to give the student an understanding of administration, program planning, materials, and strategies for teaching in preschool. Emphasis is given to application of the principles of child development and learning to promote harmonious physical, mental, social, and emotional growth. At least ten (10) hours of observation and participation required.

EDUC 434. Reading in Content — Secondary Emphasis 2 hours

Prerequisite: Admission to Teacher Education.

This course will help teachers focus on those reading skills essential for the needs of each student. It will include modeling the process necessary for reading and learning concepts in a subject area and instructing students so they can become independent learners. Additionally, the development of vocabulary, comprehension and study/reference skills in grades 7-12 will be covered. Causes of reading problems, assessment procedures, and organization of a sound reading program are stressed. Principles learned will be applied in classroom settings. Ten (10) hours of field experiences required.

EDUC 437. Curriculum and General Methods, Grades 7-12 1 hour

Prerequisite: Admission to Teacher Education.

This course will include the secondary curriculum content—factors that influence change, the most important current practices, and critical curriculum issues facing educators today. It will provide general knowledge of current teaching methods, strategies of learning, and evaluation procedures, as set forth in the Tennessee Instructional Model. Ten (10) hours of field-based experience in special education and multicultural education are required.

EDUC 438. Curriculum and Content Methods, Grades 7-12 1 hour

Prerequisite: Admission to Teacher Education.

The areas which offer methods courses are: Biology, Chemistry, English, Health and Physical Education, History, Mathematics, Music, Physics, Religious Education. Directed observation in selected schools and attendance at local professional meetings are considered part of this course. Among the student's responsibilities will be the collection and organization of a file of teaching materials, the preparation of lesson plans in harmony with the Tennessee Instructional Model, and evaluation of textbooks. Ten (10) hours of clinical and ten (10) hours of field experiences in selected schools and attendance at selected local professional meetings are considered a part of the course.

EDUC 453. Mathematics Methods in the Elementary School 2 hours

Prerequisite: Admission to Teacher Education.

Includes curriculum organization, materials, methods, and instructional aids with emphasis on multi-grade classrooms. Attention is given to the sequential skill development and to changes in the mathematical contents, technology and pedagogy. Observation and micro-teaching required. Ten (10) hours of field experience are required.

**EDUC 454. Science and Health Methods
in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

Includes curriculum organization, methods, materials and equipment with emphasis on multi-grade classrooms. Techniques and materials are examined using basic principles of the scientific method. Fifteen (15) hours of observations, micro-teaching, and field experience are required.

EDUC 455. Bible Methods in the Elementary School 2 hours

Prerequisite: Admission to Teacher Education.

A course to develop teaching objectives, materials, and strategies in Biblical education with emphasis on the Christ-centered curriculum and integration of faith and learning. Special attention will be given to multi-grade classrooms. Six (6) hours of observations and micro-teaching required.

**EDUC 456. Language Arts Methods
in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

Curriculum organization, methods, materials, and instructional aids with emphasis on multi-grade classrooms. Strategies for instruction in writing, spelling, grammar, literature, and composition are developed. Ten (10) hours of observation and micro-teaching required.

**EDUC 457. Social Studies Methods
in the Elementary School 2 hours**

Prerequisite: Admission to Teacher Education.

A course to develop teaching objectives, instructional strategies, materials, and methods when integrating social studies, geography, and the worldwide mission of the church. Special attention will be given to multi-grade classrooms. Five (5) hours of clinical and five (5) hours of practicum required.

EDUC 460. Practicum in Special Education 1 hour

Prerequisite: Admission to Teacher Education.

Provides opportunity for the prospective teacher to develop appreciation for children who require special modalities for learning. Field experiences (up to thirty [30] hours) will permit interaction with students with various exceptionalities. A 50 percent tuition waiver applies to this class, calculated according to the policy.

EDUC 461. Practicum in Multicultural Education 1 hour

Prerequisite: Admission to Teacher Education.

A course designed to develop a global perspective in the teacher. Opportunities will be given for interaction in an educational setting with students from varied cultural and minority groups. Adaptation of teaching methods and content to students' backgrounds will be prominent in the fifteen (15) hours of field experiences. A 50 percent tuition waiver applies to this class, calculated according to the policy.

EDUC 463. Small Schools Seminar 2 hours

Prerequisite: Admission to Teacher Education.

Required of all candidates seeking licensure K-8 or 1-8. Topics will include the specialized needs of the multi-grade teacher in administration, record keeping, curriculum management, and organization in small schools.

EDUC 465. Pre-Session Student Teaching 2 hours

Prerequisite: Admission to Student Teaching and completion of all other requirements.

This course is offered for qualified students needing experience in the "start up" dynamics of elementary and secondary programs. It involves 80 clock hours of on-site work with a qualified supervising teacher for one week prior to the fall semester through the first week of school. In consultation with the director of practice teaching, students are required to arrange for their own placement and submit a course application to the Education department office by May 1.

EDUC 466. Enhanced Student Teaching K-8 10 hours

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed for part of the semester in a kindergarten setting. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with Southern College faculty, who assume responsibility for the final summative evaluation. No other courses may be taken during student teaching. A 25% tuition waiver applies to this class, calculated according to the policy on page 235.

EDUC 467. Enhanced Student Teaching 1-8 10 hours

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed in two different settings (1-4, 5-8) during the semester. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. No other classwork may be taken during student teaching. A 25% tuition waiver applies to this class, calculated according to the policy on page 235.

EDUC 468. Enhanced Student Teaching 7-12 10 hours

Prerequisite: Admission to Student Teaching and completion of all other requirements.

Designed as a full-time practicum for one semester. Students are placed in two different settings (7-8, 9-12) during the semester. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. Students may not be enrolled in any other classwork during this semester. A 25% tuition waiver applies to this class, calculated according to the policy on page 235.

EDUC 469. Enhanced Student Teaching K-12 10 hours

Prerequisite: Admission to Student Teaching and completion of all other requirements.

(This course is for music and physical education majors only.)

Designed as a full-time practicum for one semester. Students are placed in three different settings (K-4, 5-8, 9-12) during the semester. The time spent will be approximately 6 weeks in each area. Cooperating teachers, determined by the district and college personnel, are selected according to experience, certification, and competence, and share supervision responsibilities with college faculty, who assume responsibility for the final summative evaluation. Students may not be enrolled in any other courses during this semester. A 25% tuition waiver applies to this class, calculated according to the policy on page 235.

EDUC 475. Workshop in Education (Methodology) 1-3 hours
Experienced teachers are given opportunity to work under supervision on curriculum problems. Credit is also available for preservice students as an elective.

EDUC 485. Workshop in Education (Content) 1-3 hours
Experienced teachers are given opportunity to develop new skills and gather new facts in content fields at various levels. Credit is also available for preservice students as an elective.

EDUC 295/495. Directed Study 1-2 hours
Prerequisite: Admission to Teacher Education.
This course permits the advanced student with adequate preparation to pursue independent study in special fields. This course may be repeated for credit.

PSYCHOLOGY

PSYC 124. Introduction to Psychology (F-1) 3 hours
A beginning course in the basic principles and concepts of psychology. Special attention is given to provide an exposure to a wide variety of human behaviors, which may include but are not limited to: sensation, perception, learning, memory, thinking, development motivation and personality. Included in this course are twenty (20) hours of active learning experience, which may include field experiences outside the classroom.

PSYC 128. Developmental Psychology (F-1) 3 hours
A study of life from prenatal through the adult years. Emphasis is placed on the emotional, social, physical, and psychological development of the individual. This course requires ten (10) hours of field experience. The choices of field experience facilities may be limited due to the number of students enrolled in the semester.

PSYC 217. Psychological Foundations of Education (F-1) 2 hours
See EDUC 217 for course description. (Credit not permitted if EDUC 217 has been taken.)

PSYC 224. Social Psychology (F-1) 3 hours
A study of human behavior as affected by group living. Dynamics of groups, social roles, communication, and mass behavior are focuses of consideration. Credit applicable for either psychology or sociology emphasis, but not for both.

PSYC 230. Principles and Application of Cognitive Development 2 hours
Prerequisite: PSYC 124, or EDUC 217, or permission of instructor.
A study of the psychological process by which humans acquire knowledge. Perception, reasoning, problem solving, and language skills will be analyzed. Emphasis will be placed on the applications of cognitive processes to the teaching/learning environments. The practical application of the knowledge learned from cognitive theories is applied to teaching and ten (10) hours of clinical experience is required.

PSYC 233. Human Sexuality (F-1 or F-2) 3 hours
See SOCI 233 for course description. (Credit not permitted if SOCI 233 has been taken.)

PSYC 240. Psychology of Exceptional Children and Youth 2 hours
See EDUC 240 for course description. (Credit not permitted if EDUC 240 has been taken.)

PSYC 297. Research Design and Statistics I 3 hours**Prerequisite:** EDUC 135 or PSYC 124 or PSYC 128.

This course provides an introduction to various research methods in the fields of psychology and education. The student is introduced to descriptive and inferential statistics and to the process of proposal writing. Emphasis is placed upon describing how statistics can be used as a tool in research design. Computer aided analysis of data and practice exercises is an integral part of the course.

PSYC 315. Abnormal Psychology (F-1) 3 hours**Prerequisite:** PSYC 124 or 128.

A study of the etiology of pathological behavior and the factors of good adjustment and mental health. Attention is paid to several continuing or recent controversial issues in the field of psychopathology. Included in this course are active learning experiences.

PSYC 326. Physiological Psychology 3 hours**Prerequisite:** Three hours in Biology.

This course focuses on the physiological substrates of behavior. Specific attention is given to the physiological basis of learning and motivation, sensation, emotion, neural encoding, and sleep. Further analysis of the structural and functional organization of the brain and nervous system. This course will be taught in alternate years.

PSYC 336. Language Acquisition and Development 2 hours**Prerequisite:** PSYC 124 or 128.

A study of the major theories of language acquisition, with emphasis on language development beginning at birth and extending through middle childhood. This course incorporates ten (10) hours of active learning experiences, five (5) hours of which require field experiences outside the classroom.

PSYC 346. Introduction to Personality Theories 3 hours**Prerequisite:** PSYC 124 and 128.

This course is an exploration of the major paradigms of personality theory from a Christian perspective. For example, psychoanalysis, behaviorism, humanism, existentialism, and others will be covered. It will focus on the modern theorists, including White, Rogers, Skinner, May, Bandura, Mischel, Wilson, and Barash. A study of human motivation and an exploration of individual personality perspective will provide useful personal information.

PSYC 349. Aging and Society (F-1) (W) 3 hours

See SOCI 349 for course description. (Credit not permitted if SOCI 349 has been taken.)

PSYC 356. Classroom Assessment 2 hours

See EDUC 356 for course description. (Credit not permitted if EDUC 356 has been taken.)

PSYC 357. Psychological Testing 3 hours**Prerequisite:** PSYC 124 and EDUC 297 or approval of instructor.

This course is designed to introduce the student to the principles of testing, particularly as it relates to the practice of psychology. Specifically, the course examines the purpose of individual assessment of ability, aptitude, achievement, interest, and personality. Theory and basic concepts underlying the individually administered and group tests will be evaluated. Non-standardized tests and other techniques for psychological assessment will also be addressed.

PSYC 377. Fundamentals of Counseling (F-1) (W) 3 hours

Recommended: One course in Psychology.

This is an introduction to the major theories and practices of individual counseling. The dynamics of the helping relationship are analyzed. Theory and practice will be integrated.

PSYC 384. Experimental Psychology 3 hours

This course is designed to introduce the student to the principles and practices of experimentation in the field of psychology. Specifically, this course focuses on the true experiment. In addition, it will familiarize the student with the quasi experiment and the issues involved in the use of human and animal subjects in research. This course will be taught in alternate years.

PSYC 387. Comparative Psychology 3 hours

See BIOL 387 for course description. (Credit not permitted if BIOL 387 has been taken.)

PSYC 415. History and Systems of Psychology (F-1) (W) 3 hours

Prerequisite: PSYC 124.

Philosophical and historical backgrounds of psychology leading to a consideration of contemporary schools and systems of psychology.

PSYC 421. Behavior Management 2 hours

See EDUC 421 for course description. (Credit not permitted if EDUC 421 has been taken.)

PSYC 422. Behavior Management for Adolescents 2 hours

See EDUC 422 for course description. (Credit not permitted if EDUC 422 has been taken.)

PSYC 432. Industrial/Organizational Psychology 3 hours

A study of human behavior in industries and organizations. Major theories, issues, research, and methods will be introduced. Emphasis is given to acquainting students with the possible applications of psychology to the fields of business and organizational management. This course will be taught in alternate years.

PSYC 460. Group Processes 3 hours

Prerequisite: PSYC 377.

This course will offer the advanced student the opportunity to explore through practice the various roles of group dynamics. The experience will provide skill development for the management of small groups in therapy, school, and church settings.

PSYC 465. Topics in Psychology 3 hours

Selected topics in psychology as chosen from such areas as: psychology of religion, ethics, individual differences, psychology of women, sensation and perception, etc. This course may be repeated for credit with an appropriate change in topics.

PSYC 479. Family Counseling 3 hours

Prerequisite: PSYC 377.

An advanced counseling techniques course including an emphasis on family and individual counseling and how to direct persons to make changes towards more effective interpersonal relationships.

PSYC 485. Psychology Practicum**1-3 hours****Prerequisite:** Approval of instructor.

Supervised volunteer/work experience in related fields of psychology. At least forty clock hours of work experience are required for each semester hour of credit. A two-thirds tuition waiver applies to this class, calculated according to the policy. May be repeated for credit for up to 3 hours. Grades will be assigned on an A, B, or F basis.

PSYC 490. Psychology Seminar**1 hour****Prerequisite:** Psychology major or minor with senior standing.

This course is designed to present an overview of psychology issues and contemporary problems.

PSYC 295/495. Directed Study**1-2 hours****Prerequisite:** Approval by instructor.

This course permits the student with adequate preparation to pursue independent study in special fields. The area of study will appear on the transcript. Directed study arrangements are to be completed by the student in advance of registration after consulting with the instructor. Procedures and guidelines are available from the department. May be repeated for credit.

PSYC 497. Research Design and Statistics II**3 hours****Prerequisite:** PSYC/EDUC 297 or approval by instructor.

This course permits students to apply principles of research and statistical analysis of data leading to the completion of a research project.

(F-1) (F-2) (G-2) (W) See pages 25-29 for explanation of general education requirements.

ENGINEERING STUDIES

Engineering Studies Committee:

Henry Kuhlman (Chair), John Durichek

Southern College offers the first two years of a baccalaureate degree in engineering. Upon completing the two-year engineering studies program, students transfer to the Walla Walla College School of Engineering, with which Southern College is affiliated, for the final two years. Southern College awards an Associate of Science degree in Engineering Studies. Walla Walla College, located in Washington State, awards a Bachelor of Science in Engineering degree with concentrations in civil, electrical, and mechanical engineering and a pre-professional Bachelor of Science degree in bioengineering.

The WWC School of Engineering offers a high quality program that is fully accredited by the Accreditation Board for Engineering and Technology—the only nationally recognized organization which accredits engineering programs. It has an enrollment of approximately 250 students, many of whom are transfer students from affiliated Seventh-day Adventist colleges.

The Southern College affiliation with Walla Walla College makes the transition to the final two years of the baccalaureate engineering program essentially the same as if the first two years were taken there. Even though transfer to Walla Walla College is simpler than to a non-affiliated school, the Southern College engineering studies program is compatible with baccalaureate engineering programs of most colleges and universities.

ASSESSMENT

The engineering studies program is designed to parallel the first two years of the baccalaureate engineering degree at Walla Walla College. It is regularly assessed by means of one or two campus visits each year by engineering faculty from their College of Engineering.

PROGRAM IN ENGINEERING STUDIES

Major—A.S. Engineering Studies (34 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|----------------------------------|--------------|
| ENGR 149 Intro Mech Drawing/CADD | 3 |
| ENGR 249 CAD Mechanical I | 3 |
| ENGR 211 Eng Mech: Statics | 3 |
| ENGR 212 Eng Mech: Dynamics | 3 |
| MATH 181 Calculus I | 3 |
| MATH 182 Calculus II | 4 |

| <u>Required Courses, cont.</u> | <u>Hours</u> |
|-----------------------------------|--------------|
| MATH 200 Elem Linear Algebra | 2 |
| MATH 218 Calculus III | 4 |
| PHYS 211-212 General Physics | 6 |
| PHYS 213-214 General Physics Lab | 2 |
| PHYS 311-312 Gen Physics Calc App | 2 |

| <u>Required Cognates</u> | <u>Hours</u> |
|---------------------------|--------------|
| CHEM 151-152 General Chem | 8 |
| CPTR 131 Fund of Prog I | 3 |

**Sample Freshman Year Sequence
A.S. Engineering Studies**

| 1st Semester | | Hours | 2nd Semester | | Hours |
|---------------------|----------------------------|--------------|---------------------|---------------------|--------------|
| CHEM 151 | General Chemistry | 4 | CHEM 152 | General Chemistry | 4 |
| CPTR 131 | Fund of Prog I | 3 | ENGR 249 | CADD Mechanical I | 3 |
| ENGL 101 | College Composition | 3 | MATH 200 | Elem Linear Algebra | 2 |
| ENGR 149 | Intro to Mech Drawing/CADD | 3 | MATH 182 | Calculus II | 4 |
| MATH 181 | Calculus I* | 3 | PEAC 125 | Conditioning | 1 |
| | | 16 | RELB 125 | Life and Teachings | 3 |
| | | | | | 17 |

*Engineering students are expected to have taken a year-long precalculus course (beyond Algebra II) in high school. Those who haven't should take a college precalculus course at home during the summer.

The total number of hours for the A.S. degree in engineering studies is sixty-four. Students who plan to continue their education at an engineering school other than Walla Walla College should take that school's catalog to the engineering adviser for guidance in selecting general education courses.

ENGINEERING COURSES

ENGR 149. Introduction to Mechanical Drawing and CADD (G-2) **3 hours**

See TECH 149 for course description.

ENGR 249. CADD Mechanical I (G-2) **3 hours**

Prerequisite: ENGR 149 or equivalent.

An introduction to Computer-Aided Drafting. A study of the computer as an aid in drawing and design as it applies to technical, mechanical, architectural and electrical fields using Auto Cad and Cad Key. Six periods laboratory each week. Lecture as announced by the instructor. (Spring)

ENGR 211. Engineering Mechanics: Statics **3 hours**

Pre- or corequisites: MATH 182; PHYS 211, 213.

Two and three-dimensional equilibria employing vector algebra; friction; centroids and center of mass, virtual work, and moments of inertia. (Fall)

ENGR 212. Engineering Mechanics: Dynamics **3 hours**

Pre- or corequisites: ENGR 211; MATH 218; PHYS 212, 214, 311-312.

One and two-dimensional kinetics and kinematics of rigid bodies by vector calculus; dynamics of rotation, translation and plane motion; relative motion; work and energy; impulse and momentum. (Spring)

(G-2) See pages 25-29 for general degree and general education requirements.

ENGLISH AND SPEECH

Chair: David C. Smith

Faculty: Don Dick (*Speech Coordinator*), Joan dos Santos, Jan Haluska, Pam Harris, Debbie Higgins, John Keyes, Wilma McClarty, Helen Pyke (*Composition Coordinator*)

Adjunct Faculty: Ann Clark, Rosemary Dibben, Penny Kilgore

The English and Speech Department offers two categories of classes that view man's search for truth and its most convincing expression through a Christian perspective. *Language and speech* courses aid students in developing ease, confidence, and competence in the art of effective communication and in acquiring knowledge of the science of language; *literature* courses develop the ability to discern and appreciate the best literary works.

Students majoring or minoring in English must meet the specific requirements of the English Department (below) and the General Education program (pages 25-29). For the English major, intermediate foreign language is required. College Composition does not count toward an English major or minor, but students majoring or minoring in English must earn a grade of C or higher in College Composition.

ASSESSMENT

As part of a departmental assessment process, senior English majors take a written exam and do a written evaluation of departmental programs. Results provide information used to improve departmental programs; graduation eligibility is not affected. Majors are informed about the purpose and nature of these assessment activities when they enter the English program.

PROGRAMS IN ENGLISH LANGUAGE AND LITERATURE

Major—B.A. English (30 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Select 9 Hours From:</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|-----------------------------|-------------------------------|--------------|
| ENGL 214 | Survey of American Lit | 3 | ENGL 217 | World Lit in Tran | 3 |
| ENGL 215 | Survey of English Lit | 3 | ENGL 326 | Film Evaluation (W) | 3 |
| ENGL 216 | Approaches to Literature | 3 | ENGL 335 | Biblical Literature (W) | 3 |
| ENGL 305 | Advanced Grammar | 3 | ENGL 336 | Medieval & Ren Lit (W) | 3 |
| ENGL 315 | Introduction to Linguistics | 3 | ENGL 337 | 19th-Century Brit Lit (W) | 3 |
| ENGL 445 | Ancient Classics (W) | 3 | ENGL 338 | Twentieth-Century Writers (W) | 3 |
| ENGL 313 | Expository Writing (W) | 3 | ENGL 444 | Restor & 18th-Century Lit (W) | 3 |
| | OR | | ENGL 323 | 19th-Century Amer Lit (W) | |
| ENGL 314 | Creative Writing (W) | | | OR | 3 |
| | | | ENGL 425 | Literature of the South (w) | |
| | | | ENGL 313 | Expository Writing (W) | |
| | | | | OR | 3 |
| | | | ENGL 314 | Creative Writing (W) | |
| | | | ENGL 397 | English Practicum | |
| | | | | OR | 3 |
| | | | ENGL 497 | English Internship | |

Majors may substitute a journalism writing class or English topics course for one English elective.

| <u>Required Cognates</u> | | <u>Hours</u> | <u>Recommended for teaching majors:</u> | | <u>Hours</u> |
|--------------------------|---------------------------|--------------|---|---------------------|--------------|
| SPCH 135 | Intro to Public Speaking | 3 | JOUR 205 | News Reporting | 3 |
| HMNT 205 | Arts and Ideas | 3 | | OR | |
| HIST 374 | History of England | 3 | JOUR 174/475 | Journalism Workshop | 1-3 |
| | Intermed foreign Language | 6 | | | |

Students planning to obtain educational certification will need to include the required professional education courses and additional general education requirements in their program as outlined in the Education/Psychology section of this catalog. Students preparing for secondary teacher certification must also take LIBR 425. English majors who minor in journalism or public relations are eligible for internships through the Journalism Department.

Sample Freshman Year Sequence

B.A. English
(Non-Teaching)

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|--------------------------|--------------|---------------------|---------------------|--------------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| SPCH 136 | Intro to Public Speaking | 3 | ENGL 216 | Approaches to Lit | 3 |
| | Area B, Religion | 3 | | Area D-1, Inter | |
| | Area C, History | 3 | | Foreign Lang | 3 |
| | Area D-1, Inter For Lang | 3 | | Area E, Nat Science | 3 |
| | Area G-3, Rec Skills | 1 | | Minor | 3 |
| | | <u>16</u> | | | <u>16</u> |

Sample Freshman Year Sequence

B.A. English
(Teaching)

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|--------------------------|--------------|---------------------|--------------------------|--------------|
| EDUC 135 | Intro to Education | 2 | ENGL 102 | College Composition | 3 |
| ENGL 101 | College Composition | 3 | ENGL 216 | Approaches to Lit | 3 |
| RELT 138 | Adventist Heritage | 3 | HLED 173 | Health and Life | 2 |
| | Area C, History | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| | Area D-1, Inter For Lang | 3 | | Area D-1, Inter | |
| | | <u>14</u> | | Foreign Lang | 3 |
| | | | | Area E, Nat Science | 3 |
| | | | | | <u>17</u> |

Minor—English (18 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Courses, cont.</u> | | <u>Hours</u> |
|-------------------------|--------------------------|--------------|--------------------------------|--------------------------|--------------|
| ENGL 214 | Survey of Amer Lit | 3 | ENGL 313 | Expository Writing (W) | |
| ENGL 215 | Survey of English Lit | 3 | | OR | 3 |
| ENGL 216 | Approaches to Literature | 3 | ENGL 314 | Creative Writing (W) | |
| ENGL 205 | Grammar and Linguistics | | | Upper Division Electives | 3 |
| | OR | 3 | | | |
| ENGL 305 | Advanced Grammar | | | | |

ENGLISH LANGUAGE AND COMPOSITION

Students whose native language is not English and whose TOEFL scores are between 490-549 or whose English ACT score is below 17 will be required to take special English classes offered by the English Department. These students are ineligible for Basic Writing or College Composition until they have completed these special English classes. Students with TOEFL scores below 490 are ineligible to take classes in the English Department.

ENGL 081. Language Skills I: Writing**3 hours****Prerequisite:** TOEFL score of 490 or 78 on Michigan Test.

A study of the steps in the writing process, the parts of the paragraph and basic essays, and several important patterns of organization. Emphasis on sentence structure and practice in academic writing skills. A one-hour lab is required per week. To pass this course, students must earn a C grade and achieve a minimum TOEFL score of 519. Students who do not earn a minimum grade of C or do not achieve the minimum designated TOEFL score may be required to repeat this course. This course may be repeated for credit. A fee for the TOEFL test will be charged to the student's account.

ENGL 082. Language Skills I: Grammar**3 hours****Prerequisite:** TOEFL score of 490 or 78 on Michigan Test.

A study of form, meaning, and use of standard American English grammar. Emphasis on the application of correct grammatical structures in spoken and written English. A one-hour lab is required per week. To pass this course, students must earn a C grade and achieve a minimum TOEFL score of 519. Students who do not earn a minimum grade of C or do not achieve the minimum designated TOEFL score may be required to repeat this course. This course may be repeated for credit. A fee for the TOEFL test will be charged to the student's account.

ENGL 083. Language Skills I: Reading/Discourse**3 hours****Prerequisite:** TOEFL score of 490 or 78 on Michigan Test.

A study of basic reading strategies and practice in analysis of interpretation. Emphasis also given to oral communication skills in academic and non-academic situations. A one-hour lab is required per week. To pass this course, students must earn a C grade and achieve a minimum TOEFL score of 519. Students who do not earn a minimum grade of C or do not achieve the minimum designated TOEFL score may be required to repeat this course. This course may be repeated for credit. A fee for the TOEFL test will be charged to the student's account.

ENGL 084. Language Skills II: Writing/Grammar**3 hours****Prerequisite:** TOEFL 520; Michigan Test 84, or C in both ENGL 081 and 082.

This course focuses on the composing of well-developed texts for a variety of writing tasks. It explores the writing process and how the correct use of grammar improves writing effectiveness. It includes an introduction to research writing. A one-hour lab is required per week. To pass this course, students must earn a C grade and achieve a minimum TOEFL score of 550. Students who do not earn a minimum grade of C or do not achieve the minimum designated TOEFL score may be required to repeat this course. This course may be repeated for credit. A fee for the TOEFL test will be charged to the student's account.

ENGL 085. Language Skills II: Reading/Discourse**3 hours****Prerequisite:** TOEFL 520, Michigan 84, or C in ENGL 083.

An integrated course to develop reading, speaking, and listening skills for academic-related situations. A one-hour lab is required per week. To pass this course, students must earn a C grade and achieve a minimum TOEFL score of 550. Students who do not earn a minimum grade of C or do not achieve the minimum designated TOEFL score may be required to repeat this course. This course may be repeated for credit. A fee for the TOEFL test will be charged to the student's account.

ENGL 099. Basic Writing 3 hours

Focuses on development of those writing skills necessary for successful entry into ENGL 101. Students whose English ACT score is 16 or below are required to register for this class. Students successfully completing this course will earn three institutional elective credits and may enroll in ENGL 101. Near the end of the course, students will be required to take the English section of the ACT test and must score 17 or higher in order to pass the class. The test fee will be charged to their accounts. This course does not count toward an English major or minor. (Fall)

ENGL 101-102. College Composition (A-1) 3,3 hours

Prerequisite to ENGL 101: ACT score of 17 or higher, or TOEFL score of 550 or higher, or Basic Writing Credit. *ENGL 101 is prerequisite to ENGL 102.*

A two-semester course focusing strongly on the writing process, especially revision. ENGL 101 emphasizes specific writing skills and principles which readily apply to most writing tasks. Students write expository essays organized according to prescribed modes. ENGL 102 reinforces the proficiencies developed in ENGL 101 while focusing on rhetorical and reasoning skills which apply to various persuasive and research writing activities. Students write persuasive essays and a research paper. This course does not count toward an English major or minor. (Fall, Spring, Summer)

ENGL 205. Grammar and Linguistics for Teachers 3 hours

An individualized review of traditional grammar and standard American usage and an introduction to linguistic topics relevant to the prospective elementary school teacher. Included are a survey of English language development, a study of the nature of language, and a discussion of dialects in the classroom.

ENGL 305. Advanced Grammar 3 hours

Prerequisite: Minimum English ACT usage subscore of 13, ENGL 205, or a challenge exam.

An overview of major grammatical theories. The course, designed for English majors, includes a review of traditional grammar, but emphasizes structural analysis and transformational grammar.

ENGL 313. Expository Writing (G-2) (W) 3 hours

A workshop approach that provides practical instruction in expository writing for all disciplines. Emphasis on developing a natural writing style; writing economical but lively prose; increasing vocabulary; and cultivating a writing process which frees writer's block and facilitates thoughtful, cogent, focused, coherent, and fluent writing. Involves reading and analysis of a wide variety of writing. Helpful for all students wishing to improve their writing skills, particularly those headed for graduate school or for professions in which writing is important. Tailored to the needs and interests of students who enroll. (Fall)

ENGL 314. Creative Writing (G-1) (W) 3 hours

Prerequisite: Three hours of literature or permission of instructor.

A study of the principles, techniques, and kinds of personalized writing, providing the student with opportunity to develop his own style and to find possible markets for his manuscripts that may be worthy of publication. (Spring)

ENGL 315. Introduction to Linguistics 3 hours

Prerequisite: ENGL 305.

A survey course introducing the student to the origin, history, and development of the English language. The course focuses on the nature of language and language change, phonology, morphology, syntax, semantics, and ethical issues in language use. (Spring)

ENGL 415. English Practicum

1-3 hours

Prerequisite: 18 hours in the major, ENGL 313 Expository Writing or ENGL 314 Creative Writing, and formal approval by the department.

The student gains on-the-job experience using English skills in a part-time work situation (maximum of 25 hours per week). A department coordinator works with the student and a local business to oversee placement and evaluation. Both the student and the business assess in writing the quality and nature of the work experience. The student receives 1 credit hour for each 50 hours of work experience. Positions can be paid or non-paid. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235. (Pass/Fail credit).

ENGL 416. English Internship

3 hours

Prerequisite: 18 hours in the major, ENGL 313 Expository Writing or ENGL 314 Creative Writing, and formal approval by the department.

The student gains on-the-job experience using English skills in a full-time work situation (minimum of 35 hours per week). A department coordinator works with the student and a selected business to oversee placement and evaluation. Both the student and the business assess in writing the quality and nature of the work experience. A minimum of 150 hours of supervised work is required. Positions can be paid or non-paid. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235. (Pass/Fail credit).

LITERATURE

ENGL 214. Survey of American Literature (D-2)

3 hours

Prerequisite: ENGL 102.

A study of representative selections from major American authors, colonial through modern, with emphasis on ideas, attitudes, and trends having individual, national, and universal interest. (Fall)

ENGL 215. Survey of English Literature (D-2)

3 hours

Prerequisite: ENGL 102.

A study of representative selections by British writers, with special emphasis on the author's philosophy as compared or contrasted with Bible-based thinking, and a review of literary trends and influences from the late Roman period to the present. Among writers receiving strong attention are Chaucer, Shakespeare, Donne, Milton, Wordsworth. (Fall, Spring)

ENGL 216. Approaches to Literature (D-2)

3 hours

Prerequisite: ENGL 101.

A study of what recognized poets, short-story writers, dramatists, and novelists have to say about the human condition, emphasizing the various approaches to literature and including an introduction to literary terms and critical evaluation. (Spring)

ENGL 217. World Literature in Translation (D-2)

3 hours

Prerequisite: ENGL 102.

A study of significant selections of world literature in translation, both western and non-western. Emphasis on ideas and qualities that give these works enduring value. (Spring, even years)

ENGL 323. Nineteenth-Century American Literature (D-2) (W) 3 hours

A chronological study of major nineteenth-century American writers and their works beginning with the writings of Washington Irving and the emergence of a genuine "American" literature and ending with Stephen Crane and Jack London whose naturalistic works bridge the nineteenth and twentieth centuries. Among the authors studied are Cooper, Bryant, Longfellow, Emerson, Thoreau, Poe, Hawthorne, Melville, Whitman, Dickinson, Twain, and James. (Fall, even years)

ENGL 326. Film Evaluation (D-2) (W) 3 hours

The primary goal of the class is to help each student develop a personal set of criteria for evaluating films. Class activities include viewing films that have made significant contributions to our culture, reading film reviews and criticisms, studying how films are made and how to write about films, and writing about them. The class meets one night per week for a minimum of 3 hours, at which time films are viewed. Evaluation papers based on this viewing are due weekly. (Spring)

ENGL 335. Biblical Literature (D-2) (W) 3 hours

A study of some of the literary masterpieces of the Bible in English translation. The course applies techniques of oral interpretation and literary analysis (including emphasis upon uses of poetic and rhetorical devices and of figures of speech) to forms of literature such as address, proverb, parable, poem, short story, epistle, and apocalypse. (Spring, odd years)

ENGL 336. Medieval and Renaissance Literature (D-2) (W) 3 hours

From Chaucer through Milton, the writers and their times. Readings in Middle English narrative, allegory, play, and meditation; in sixteenth and seventeenth-century prose, poetry and dramatic literature, with the study of genre, conventions, and trends. Specific attention to moral and religious issues. (Spring, odd years)

ENGL 337. Nineteenth-Century British Literature (D-2) (W) 3 hours

A study of British writers from the Romantic or Victorian periods (1785-1901), with special emphasis upon Blake, Wordsworth, Coleridge, Byron, Shelley, Keats, Austen, Tennyson, Dickens, Arnold, Browning, Carlyle, and Wilde. (Spring, even years)

ENGL 338. Twentieth-Century Writers (D-2) (W) 3 hours

A study of twentieth-century writers with an emphasis on American and/or British works, although world literature in translation may be included. (Spring)

ENGL 425. Literature of the South (D-2) (W) 3 hours

A study of works written by Faulkner, Welty, Warren, Wright, O'Connor and other southern writers which embody the distinctive cultural heritage of the South. An emphasis on the literary treatment of southern traditions and themes. (Fall, odd years)

**ENGL 444. Restoration and
Eighteenth-Century Literature (D-2) (W) 3 hours**

This course considers English literature written between the Restoration and Romantic Revolution. Included are poets and essayists from Milton to Johnson, novelists like Defoe and Fielding, and comic playwrights such as Gay and Goldsmith. (Spring, odd years)

ENGL 445. Ancient Classics (D-2) (W) 3 hours

After beginning with the three great epics that underlie the literature of the Western World—the *Iliad*, the *Odyssey*, and The Book of Job—the course considers a range of Greek and Roman works. Collateral emphasis is on enhancing a student's ability to distinguish between classical Greco-Roman and Judeo-Christian modes of thought. (Fall)

ENGL 465. Topics in English (D-2) (W)

3 hours

Selected topics in English presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

ENGL 295/495. Directed Study

1-3 hours

The content of this course will be adjusted to meet the particular needs of the student. This course also includes credit offered by the English Department on directed study tours. Open only to English majors or minors with the approval of the department chairman in consultation with the prospective instructor. This course may be repeated for credit.

SPEECH

SPCH 135. Introduction to Public Speaking (D-4)

3 hours

Preparation and presentation of short informative and persuasive speeches with emphasis on the selection and organization of material, reasoning, methods of securing interest, persuasive strategies, and the elements of delivery. (Fall, Spring, Summer)

SPCH 136. Interpersonal Communication (D-4)

3 hours

Introducing the process of informal transactional communication, this course emphasizes a quality of communication rather than a communication setting, namely personal involvement through emphatic listening and self-disclosure. The course utilizes readings and learning activities to help students understand the theory of interpersonal communication and apply it in realistic transactions.

SPCH 465. Topics

3 hours

Selected topics in speech and related areas presented in a classroom setting. Subjects covered will determine general education credit-status. This course may be repeated for credit.

SPCH 295/495. Directed Study

1-3 hours

The content of this course will be adjusted to meet the particular needs of the student. Open only to students approved by the department chair in consultation with the prospective instructor. This course may be repeated for credit.

EDUCATION

EDUC 438. Curriculum and Content Methods/English

1 hour

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance; the survey and evaluation of textbooks is also included.

(A-1) (D-2) (D-4) (G-1) (G-2) (W) See pages 25-29 for explanation of general education requirements.

Competency required in PEAC 143, Beginning Tumbling.

Skill deficiencies in each PETH activity unit, 114 through 119 and 214 through 219, will be indicated by grade of C- or less. Deficiencies for these units must be met by taking for no credit the corresponding general education activity course.

Intramural participation is recommended for all majors and minors.

Students who desire teacher certification must meet the State of Tennessee certification requirements set forth by the Department of Education. The student must apply to the Department of Education for admission to the Teacher Education Program and the professional semester before the end of the sophomore and junior years, respectively.

**Sample Freshman Year Sequence
B.S. Physical Education
(Leading to Licensure K-12)**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|------------------------|--------------|---------------------|------------------------|--------------|
| BIOL 101 | Anatomy and Physiology | 3 | BIOL 102 | Anatomy and Physiology | 3 |
| EDUC 135 | Intro to Education | 2 | ENGL 102 | College Composition | 3 |
| ENGL 101 | College Composition | 3 | PETH 122 | Prof Skills, Team | 3 |
| PETH 121 | Prof Skills, Team | 3 | RELT 255 | Christian Beliefs | 3 |
| | Electives | 1 | SOCI 233 | Marriage and Family | 2 |
| | Area C-1, History | 3 | | Area C-1, History | 3 |
| | | <u>16</u> | | | <u>17</u> |

**Major—B.S. Corporate/Community Wellness Management
(41 Hours)**

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|--------------------------|--|--------------|
| BIOL 101-102 | Anatomy and Physiology | 6 | ACCT 103 | College Accounting | 3 |
| CHEM 111 | Survey of Chem | 3 | BMKT 326 | Intro to Marketing | 3 |
| FDNT 125 | Nutrition | 3 | BUAD 334 | Prin of Mgmt | 3 |
| HLED 173 | Health and Life | 2 | BUAD 358 | Legal, Eth, & Soc Envir of Business | 3 |
| HLED 256 | Drugs and Society | 2 | CPTR 105 | Intro to Word Process | 1 |
| HLED 373 | Care/Prev Injuries | 2 | ECON 213 | Survey of Econ | 3 |
| HLED 470 | Current Issues in Health | 2 | JOUR 205 | News Reporting | 3 |
| HLED 476 | Meth/Mat of Hlth Promo | 3 | PSYC 128 | Developmental Psych | 3 |
| HLED 497 | Wellness Practicum | 2 | PSYC 377 | Fund of Counseling | 3 |
| PEAC 225 | Conditioning | 1 | SOCI 223 | Marriage & Family | 2 |
| PETH 314 | Kinesiology | 3 | | | |
| PETH 315 | Physiology of Exercise (W) | 4 | | | |
| PETH 364 | Prin & Admin of Phy Ed | 3 | | | |
| PETH 374 | Motor Learning & Dev | 2 | | | |
| PETH 474 | Psych & Sociology of Sports | 2 | | | |
| PETH 490 | Senior Comp Seminar | 1 | | | |

**Sample Freshman Year Sequence
B.S. Corporate/Community Wellness Management**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|----------------------|--------------|---------------------|-----------------------|--------------|
| BIOL 101 | Anatomy & Physiology | 3 | BIOL 102 | Anatomy & Physiology | 3 |
| ENGL 101 | College Composition | 3 | CPTR 105 | Intro to Word Process | 1 |
| HLED 173 | Health and Life | 2 | ENGL 102 | College Composition | 3 |
| PEAC 225 | Conditioning | 1 | SOCI 223 | Marriage & Family | 2 |
| | Area B, Religion | 3 | | Area C, History | 3 |
| | Area C, History | 3 | | Electives | 4 |
| | | <u>15</u> | | | <u>16</u> |

Major—B.S. Health Science (45 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Courses, cont.</u> | | <u>Hours</u> |
|-------------------------|--------------------------|--------------|--------------------------------|----------------------------|--------------|
| BIOL 101-102 | Anatomy and Physiology | 6 | MATH 215 | Statistics | 3 |
| BIOL 225 | Microbiology | 4 | PEAC 225 | Conditioning | 1 |
| CHEM 151-152 | General Chemistry | 8 | PETH 314 | Kinesiology | 3 |
| FDNT 125 | Nutrition | 3 | PETH 315 | Physiology of Exercise (W) | 4 |
| HLED 173 | Health and Life | 2 | PETH 374 | Motor Learning & Dev | 2 |
| HLED 373 | Care/Prev Injuries | 2 | PETH 490 | Senior Comp Seminar | 1 |
| HLED 470 | Current Issues in Health | 2 | PETH 495 | Directed Study | 1-3 |
| HLED 473 | Health Education | 2 | | Upper division elective | 1 |

**Sample Freshman Year Sequence
B.S. Health Science**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|------------------------|--------------|---------------------|------------------------|--------------|
| BIOL 101 | Anatomy and Physiology | 3 | BIOL 102 | Anatomy and Physiology | 3 |
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| | Area C-1, History | 3 | SOCI 223 | Marriage & Family | 2 |
| | Area A-2, Math | 3-0 | | Area B-2, Religion | 3 |
| | Electives | 4-7 | | Area C-1, History | 3 |
| | | 16 | | Electives | 2 |
| | | | | | 16 |

Minor—Physical Education (18 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Select 8 Hours From:</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|-----------------------------|------------------------|--------------|
| PETH 265 | Officiating Sports Analysis | 2 | PETH 114 | ProAct—Softball | 1 |
| PETH 266 | Officiating Sports Analysis | 2 | PETH 115 | ProAct—Flagball | 1 |
| PETH 364 | Prin/Admin Phys Ed | 3 | PETH 116 | ProAct—Volleyball | 1 |
| | Upper Division | 3 | PETH 117 | ProAct—Basketball | 1 |
| | | | PETH 118 | ProAct—Floor Hockey | 1 |
| | | | PETH 119 | ProAct—Soccer | 1 |
| | | | PETH 214 | ProAct—Tennis | 1 |
| | | | PETH 215 | ProAct—Golf | 1 |
| | | | PETH 216 | ProAct—Conditioning | 1 |
| | | | PETH 217 | ProAct—Badminton | 1 |
| | | | PETH 218 | ProAct—Track and Field | 1 |
| | | | PETH 219 | ProAct—Gymnastics | 1 |

HEALTH EDUCATION**HLED 173. Health and Life (F-3) 2 hours**

A study of current subjects vital to healthful living. Integrating healthful living and Christianity with today's scientific research. Not open to nursing students. (Fall, Spring, Summer)

HLED 256. Drugs and Society 2 hours

An introductory course focusing on the use and abuse of drugs in our society. Emphasis on strategies to assist future health promoters in recognition, intervention, and prevention of substance abuse. Oral presentation required. (Fall)

HLED 373. Prevention and Care of Athletic Injuries 2 hours

Prerequisite: PETH 314.

Investigations into the prevention, care, and proper management of injuries related to athletics. (Spring)

HLED 470. Current Issues in Health 2 hours

This seminar course is designed to assist students in becoming knowledgeable regarding health issues of our time. Library research and class presentations are required. Discussion and problem solving are emphasized. A major part of the class focuses on the need of a spiritual component in establishing a healthful and balanced lifestyle. (Fall)

HLED 473. Health Education 2 hours

Prerequisite: HLED 173 or HLED 470.

A study of the theoretical and scientific basis of health education with emphasis on the development and organization of the school health instruction program. Two oral presentations required. (Spring)

HLED 476. Wellness Methods, Materials, and Management 3 hours

A course in planning, implementing and evaluating: work-site and community health promotion activities, including stress management, smoking cessation, cardiovascular fitness, body composition, and cholesterol testing. Oral presentation required. (Spring)

HLED 497. Wellness Practicum 2 hours

The student will work at a wellness facility for not less than 100 clock hours gaining experience with equipment, observing facility scheduling and management, and interacting with clients. Arrangements are made in advance with the department chair. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235. (Fall, Spring, Summer)

HEALTH, PHYSICAL EDUCATION, RECREATION**HPER 365. Topics in HPER 1-3 hours**

Selected topics in Health, Physical Education, or Recreation designed to meet the needs or interests of students in specialty areas not covered in regular courses. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

GENERAL EDUCATION ACTIVITY COURSES

PEAC courses have optional pass/fail grades available, excluding PEAC 225.

PEAC 123. Volleyball (G-3) 1 hour

Development of the skills of passing, setting, serving, and spiking necessary in participation in power volleyball. (Fall)

PEAC 124. Basketball (G-3) 1 hour

Individual skills and team concepts are developed that may be used in competition and leisure play. (Spring)

PEAC 131. Badminton (G-3) 1 hour

Instruction includes strokes, rules, and playing situations plus physical conditioning for badminton. (Spring)

PEAC 133. Racquetball (G-3) 1 hour

Focus is given to basic skills, rules, and terminology so that the student can carry on successful play. (Fall, Spring)

PEAC 134. Basic Tennis (G-3) 1 hour

Emphasis in basic tennis skills including the forehand, backhand, and serve. (Fall)

PEAC 136. Basic Golf (G-3) 1 hour

A basic course for the beginning golfer. Students must have their own golf clubs. Lab fee required. (Fall)

PEAC 137. Cycling (G-3) 1 hour

A course for the active cyclist emphasizing various types of cycling, cycling techniques, safe cycling, and maintenance. Each student provides his/her own bicycle and helmet. (Fall)

PEAC 138. Intermediate Golf (G-3) 1 hour

Play on a variety of courses for the bogey golfer. Students must have their own golf clubs. Lab fee required. (Fall)

PEAC 139. Advanced Tennis (G-3) 1 hour

For the advanced player. Emphasis is given to the advanced serve, volley, lobs, advanced ground strokes and playing strategy. Admission to class must be approved by instructor. (Fall)

PEAC 143. Basic Tumbling (G-3) 1 hour

Mat tumbling leading to gymnastic free-exercise routines in conjunction with acroport exposure.

PEAC 144. Basic Apparatus (G-3) 1 hour

Skill development on various gymnastic equipment such as the pommel horse, high bar, P-bars, rings, unevens, and balance beam.

PEAC 151. Scuba Diving (G-3) 1 hour

Leads to basic certification by N.A.S.D.S. or N.A.U.I. Lab fee of \$98 and check out dive expenses charged in addition to tuition. (Fall, Spring)

PEAC 153. Basic Swimming (G-3) 1 hour

Development of beginning and intermediate swimming skills coupled with aquatic safety principles. (Fall, Spring, Summer)

PEAC 225. Conditioning (G-3) 1 hour

A study of basic fitness training and aerobic principles in conjunction with a personalized long-range conditioning program for disease prevention and health maintenance. Students will receive a grade for this class. Pass/Fail option not available. (Fall, Spring)

PEAC 243. Tumbling Team (Gym-Masters) (G-3) 1 hour

A "variety show" team which emphasizes acroport, sports acrobatics, gymnastics, physical fitness and health. Admission will be based on satisfactory performance of try-out requirements. Participation in all tours is required. This course may be repeated for credit. **Due to program conflicts, second semester Gym-Masters will not enroll in classes that meet before 1:00 p.m. on Tuesdays and Thursdays.** (Fall, Spring)

PEAC 254. Lifeguarding (G-3) 1 hour

Leads to Red Cross Life Guarding certification, First Aid and CPR certification. (Fall, Spring)

PEAC 255. Water Safety Instructor (G-3) 1 hour

Prerequisite: PEAC 254 or equivalent.

Leads to Red Cross Water Safety Instructor certification. (Fall, Spring)

PEAC 259. Special Activities (G-3) 1 hour

Courses with various structured content may be offered under this topic heading. Included are courses in water skiing, sailing, small craft, snow skiing, rock climbing, spelunking, and aerobics. This course may be repeated with the varying subject matter. Lab fees in addition to tuition are usually charged approximately \$50-\$500.

PEAC 261. Introduction to Recreation (G-3) 1 hour

A course designed to promote outdoor recreation and provide experience for those interested in preparing for different phases of camp life, outdoor living and activities.

PHYSICAL EDUCATION THEORY**PETH 114. ProAct — Softball 1 hour**

Development of professional skills including performance and teaching techniques for softball. For majors and minors only. (Fall, odd years)

PETH 115. ProAct — Flagball 1 hour

Development of professional skills including performance and teaching techniques for flagball. For majors and minors only. (Fall, odd years)

PETH 116. ProAct — Volleyball 1 hour

Development of professional skills including performance and teaching techniques for volleyball. For majors and minors only. (Fall, odd years)

PETH 117. ProAct — Basketball 1 hour

Development of professional skills including performance and teaching techniques for basketball. For majors and minors only. (Spring, even years)

PETH 118. ProAct — Floor Hockey 1 hour

Development of professional skills including performance and teaching techniques for floor hockey. For majors and minors only. (Spring, even years)

PETH 119. ProAct — Soccer 1 hour

Development of professional skills including performance and teaching techniques for soccer. For majors and minors only. (Spring, even years)

PETH 210. Aerobic-Exercise Instructor Training 2 hours

A course that combines the theory and practical aspects of aerobic exercise programs. Knowledge and skills will be the focus, with students developing and teaching their own aerobic routines as a demonstration of their understanding and skills of sound aerobic principles. Aerobic certification will be available.

PETH 214. ProAct — Tennis 1 hour

Development of professional skills including performance and teaching techniques for tennis. For HPER majors and minors only. (Fall, even years)

PETH 215. ProAct — Golf 1 hour

Development of professional skills including performance and teaching techniques for golf. For HPER majors and minors only. (Fall, even years)

PETH 216. ProAct — Conditioning 1 hour

Development of professional skills including performance and teaching techniques for conditioning. For HPER majors and minors only. (Fall, even years)

- PETH 217. ProAct — Badminton** 1 hour
Development of professional skills including performance and teaching techniques for badminton. For HPER majors and minors only. (Spring, odd years)
- PETH 218. ProAct — Track and Field** 1 hour
Development of professional skills including performance and teaching techniques for track and field. For HPER majors and minors only. (Spring, odd years)
- PETH 219. ProAct — Gymnastics** 1 hour
Development of professional skills including performance and teaching techniques for gymnastics. For HPER majors and minors only. (Spring, odd years)
- PETH 265, 266. Officiating Sports Analysis** 2,2 hours
An introduction to administration of and participation in the organization of officiating in team and individual recreational activities. (Fall, Spring)
- PETH 314. Kinesiology** 3 hours
Prerequisite: BIOL 101-102 or equivalent.
A study of the anatomical and mechanical variables influencing human motion for efficient, safe, and effective movement. The historical impact of leaders in physical education is studied. (Fall)
- PETH 315. Physiology of Exercise (W)** 4 hours
Prerequisite: BIOL 101-102 or equivalent.
Emphasizing the physiological effects of muscular exercise, aerobics, and physical conditioning. Significance of these effects for health, skilled performance, and prevention of disease. Oral presentation required. (Spring)
- PETH 363. An Introduction to Measurements and Research of Physical Education** 3 hours
A survey of tests used in Physical Education and an introduction to statistical procedures for analyzing data and how it may be applied to research. History of physical education is also dealt with briefly. (Fall)
- PETH 364. Principles and Administration of Physical Education and Recreation** 3 hours
An integrated study of the principles and administrative concepts of Physical Education and Recreation with emphasis in management needs and skills. (Spring)
- PETH 374. Motor Learning and Development** 2 hours
A course of study designed to examine motor development and motor behavior as it relates to an individual's maturation process, with emphasis placed on implications for the physical educator. (Fall)
- PETH 437. Adaptive Physical Education** 2 hours
A course designed to develop an understanding of neurodevelopment and functional ability, of impairments and their implications for motor performance. Emphasis on teaching progressions and exercise programs for special populations. (Fall)
- PETH 463. Physical Education in the Elementary School** 2 hours
A course of study designed to acquaint students with the unique aspects of physical education and the adolescent. Special activities include teaching and observation in an elementary school.

PETH 474. Psychology and Sociology of Sports**2 hours**

An exploration of sports and their involving impact on American culture. Special attention is given to current issues in sports as they relate to the individual in society. (Spring)

PETH 490. Senior Comprehensive Seminar**1 hour**

A course of study designed to prepare the student for the exit exam. Special attention is given to concepts, practical applications, and administrative responsibilities within the profession.

PETH 495. Directed Study (W)**1-3 hours**

For Physical Education majors or minors only. Gives the student the opportunity to pursue knowledge in an area of interest related to health, PE, or recreation. Approval by Department Chair required.

EDUCATION**EDUC 438. Curriculum and Content Methods/
Health and Physical Education****1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance.

(F-3) (G-3) (W) See pages 25-29 for explanation of general education requirements.

HISTORY

Chair: Benjamin McArthur

Faculty: Mark Peach, Dennis Pettibone

History is the study of the human experience. It investigates mankind's ideas, institutions, and activities. In pursuing this investigation, history courses at Southern College emphasize the Christian view of humanity. This perspective recognizes both the potential and the limitation of human endeavor and thereby permits a broader comprehension of the past and a greater hope for the future.

Approval of study programs for history majors. Departmental approval is necessary for all programs. A student majoring in history must plan his/her entire study program with a member of the history faculty. Approval is then considered on an individual basis and is granted on the following conditions:

1. Compliance with graduation requirements as explained elsewhere in the CATALOG.
2. Fulfillment of the professional and individual needs of the student.
3. Embodiment of academic balance and continuity.
4. Completion of senior year assessment.

ASSESSMENT

Assessment of seniors consists of two parts. First, in the spring semester of their senior year students will take the ETS Major Field Achievement Test in history. Second, at the beginning of the fall semester seniors will take a departmental exam. Preparation for this exam will constitute a one-hour independent study course involving: 1) reading a selected few classics of historical literature; 2) reviewing one's history coursework utilizing several thematic questions provided by the history faculty.

The subsequent examination will be in the form of a one-hour interview of the candidate by the history faculty. This will be based on the above-mentioned materials and also on the student's portfolio of major papers accumulated during his/her history coursework. The oral examination is graded on an Honors, Pass, or Fail basis. A failure requires further preparation by the student and another interview before graduation.

BACHELOR OF ARTS DEGREE IN HISTORY

Major—B.A. History (31 Hours)

| Required Courses | Hours |
|---------------------------------------|-------|
| HIST 154, 155 Amer History & Instit | 6 |
| HIST 174, 175 World Civilizations | 6 |
| HIST 490 Senior Exam Preparation | 1 |
| HIST 499 Research Meth in History (W) | 3 |

Six hours of political science may apply to the major.

| <u>Require 2 Courses [at least] from:</u> | | <u>Hours</u> | <u>Require 2 Courses [at least] from:</u> | | <u>Hours</u> |
|---|-------------------------------|--------------|---|---------------------------------|--------------|
| <i>(American History)</i> | | | <i>(European History)</i> | | |
| HIST 353 | From Colony to Nation (W) | 3 | HIST 374 | History of England (W) | 3 |
| HIST 354 | Latin America (W) | 3 | HIST 375 | Ancient World (W) | 3 |
| HIST 355 | History of the South (W) | 3 | HIST 386 | Rise of the West (W) | 3 |
| HIST 356 | Natives and Strangers (W) | 3 | HIST 389 | Vienna to Vietnam (W) | 3 |
| HIST 357 | Modern America (W) | 3 | HIST 471 | Classics of West Thought I (W) | 3 |
| HIST 359 | Trans of American Culture (W) | 3 | HIST 472 | Classics of West Thought II (W) | 3 |
| PLSC 254 | Amer Nat & State Gov | 3 | PLSC 389 | Vienna to Vietnam (W) | 3 |
| PLSC 353 | From Colony to Nation (W) | 3 | PLSC 471 | Classics of West Thought I (W) | 3 |
| PLSC 357 | Modern America (W) | 3 | PLSC 472 | Classics of West Thought II (W) | 3 |
| | | | HIST 364 | Christian Church I (W) | 3 |
| | | | OR | | |
| | | | HIST 365 | Christian Church II (W) | 3 |

| <u>Required Cognates</u> | <u>Hours</u> | <u>Require 1 of the following:</u> | <u>Hours</u> |
|-----------------------------|--------------|------------------------------------|--------------|
| Inter Level of Foreign Lang | 6 | ECON 224 Principles of Economics | 3 |
| | | GEOG 204 World Geography | 3 |

Upper division history classes seek to improve skills of writing and speech. All such classes require analytical writing as part of the coursework. Additionally, many classes involve discussion and oral class reports as partial basis for the student's grade, most notably HIST 499, Research Methods in History, which requires an extended formal presentation of student research.

History majors must display the ability to apply computer usage to their discipline in two ways: first, a facility with word processing; and second, by a facility in accessing information via the Internet.

Sample Freshman Year Sequence B.A. History

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|---|--------------|---------------------|---|--------------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| HIST 154 | American History | 3 | HIST 155 | American History | 3 |
| | Area B, Religion | 3 | | Area A-2, Mathematics | 0-3 |
| | Area F, Behav/Family/ Health Science | 3 | | Area F, Behav/Family/ Health Science | 2 |
| | Area D, Lit/Fine Art | 3 | | Area D, Lit/Fine Art | 3 |
| | OR | 3 | | OR | 3 |
| | Area D-1, Beg For Lang | 15 | | Area D-1, Beg For Lang | 5-2 |
| | | | | Electives | 16 |

Minor—History (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|------------------------------|--------------|
| HIST 174 World Civilizations | 3 |
| HIST 175 World Civilizations | 3 |

The additional twelve hours will be chosen from remaining history courses, six hours of which must be upper division. A minimum of three hours must be chosen from each of the American and European areas. Three hours of political science may be taken in lieu of three hours of history. A student planning to minor in history in order to obtain a second teaching area for denominational certification must take all eighteen hours in history and must include HIST 154, 155.

Minor—Political Economy (18 Hours)

Combines an interdisciplinary selection of courses helpful for law school preparation. For a further description of this pre-law preparation program, see page 221.

Minor—Political Science (18 Hours)

This minor provides opportunity for students to gain practical experience in governmental work as part of an academic program. There are two types of internships for the minor: a Washington D.C. internship supervised by Columbia Union College; and a Tennessee State legislative internship in Nashville. Either internship will give intensive exposure to state or federal government or public advocacy work. There are also opportunities to work in a religious advocacy organization in the nation's capital with the CUC program.

The Political Science minor is an 18-hour program, 9 or 12 hours of which (depending on whether a summer or semester-long internship was taken) would consist of the internship credit. The balance of the minor would require:

1. PLSC 254 American Government
2. 3 to 6 hours of other PLSC courses

For more details on the program, see the History Department chair.

History as a preprofessional degree: A student majoring in history who plans to enter a professional school in an area such as medicine or law must present a balanced program of general education classes and electives that will support the professional objectives.

History as a preparation for teaching: A student majoring in history who plans to prepare for secondary teacher certification must include six hours upper division Political Science in the major and must also take PLSC 224, 254; and GEOG 204. It is strongly recommended that the student also earn teaching credentials in a field outside of history. No specific supporting field is required but art, behavioral science, business, English, modern languages, and religion are recognized as intimately related to the study of history. A student may receive denominational certification to teach history as a second area by completing a minor in history (see under Minor below). Since the entire second semester of the senior year is devoted to certification requirements, students earning teacher certification must finish all history classwork before reaching the final semester. Students applying for teacher certification must consult with the Education Department to draft a schedule of classes meeting certification requirements.

Before the end of the sophomore year the student must apply to the Department of Education for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Department of Education for admission to the professional semester.

History Department tours: The Department of History regularly sponsors study tours to foreign countries. The purpose of these tours is to provide students and other participants with an enhanced understanding

of history and culture through a combination of traditional lecture and reading with direct observation of historical sites. Academic activities connected with the tours require students to spend an amount of time equal to that expected in a regular classroom setting. Preparatory meetings and assigned reading are included in this computation. Course credit is offered under HIST 295/495 Directed Study in History. Cost of the tours includes charge for academic credit.

History as general education: Freshman and sophomore students earning general education credit in history should take courses from the 100 and 200 level. Junior and senior students meeting general education requirements in history should select courses from the 300 and 400 level.

HISTORY

HIST 154, 155. American History and Institutions (C-1) 3,3 hours

An introductory survey of the nation from colonial times to the present. The development of its politics, government and social institutions is covered in each semester of the sequence. This course is recommended as general education for freshmen and sophomores. (Fall, Spring, Summer)

HIST 174, 175. World Civilizations (C-1) 3,3 hours

A study of the development of Western and non-Western culture and government, emphasizing the evolution of European society and its interaction with non-European civilizations. This course is recommended as general education for freshmen and sophomores.

HIST 353. From Colony to Nation (C-1) (W) 3 hours

A detailed survey of American political and social history from 1607 to 1800, including the founding of the thirteen colonies, the American Revolution, and the establishment of the new nation.

HIST 354. Latin America (C-1) (W) 3 hours

A survey of Latin America offering brief backgrounds from the colonial, independence, and early national periods, but focusing on twentieth-century trends in selected republics. Arranged with instructor.

HIST 355. History of the South (C-1) (W) 3 hours

A study of the American South from the Early National period through Reconstruction. Prominent issues will include slavery, sectionalism, the Civil War, and Reconstruction.

HIST 356. Natives and Strangers (C-1) (W) 3 hours

A study of immigration and the role of ethnic groups in American society. Special emphasis on the tension between assimilation and pluralism in the national character.

HIST 357. Modern America (C-1) (W) 3 hours

A study of American History from 1900 on with special examination of the progressive era, normalcy, the depression, the New Deal, and the role of the United States in world affairs. (Fall)

HIST 359. Transformation of American Culture (C-1) (W) 3 hours

A topical approach to nineteenth and twentieth-century American history, focusing on the modernization of life. Among the topics that may be covered are entertainment, the media, urban culture, social relations, transportation, and art and architecture.

HIST 364. Christian Church I: From the Early Church**Through the Middle Ages (C-1) (W)****3 hours**

A study of the history of western Christianity from the end of the apostolic period to the end of the Middle Ages, emphasizing both institutional and theological development. (Fall)

HIST 365. Christian Church II: From the Reformation**Through the Twentieth Century (C-1) (W)****3 hours**

A study of the reorientation of western Christianity, beginning with the Protestant Reformation and culminating with contemporary religious trends. (Spring)

HIST 374. History of England (C-1) (W)**3 hours**

A survey of the history of Great Britain from Roman times to the twentieth century, emphasizing political, cultural, and economic developments which have influenced western civilization as a whole.

HIST 375. Ancient World (C-1) (W)**3 hours**

A study of the three stages of ancient civilization, the Ancient Near East, Greece, Rome, and the contribution each has made to the development of western culture.

HIST 386. Rise of the West (C-1) (W)**3 hours**

A study of European history from the fall of Rome to the beginning of the modern age, focusing on those developments which have influenced the institutions and values of modern western civilization. The chronological emphasis is on the eleventh through the sixteenth centuries.

HIST 389. Vienna to Vietnam (C-1) (W)**3 hours**

A study of major historical developments affecting international relations since the Napoleonic Era. The class treats antithetical forces such as peace and war, power and weakness, sovereignty and dependence, as well as others, in their historical setting. Students may earn either history or political science credit, depending on individual assignments.

HIST 465. Topics in History (C-1) (W)**3 hours**

Selected topics in history presented in classroom setting. Subjects covered will determine whether credit is granted in Area I or Area II. This course may be repeated for credit.

HIST 471. Classics of Western Thought I (C-1) (W)**3 hours**

A study of the key thinkers in western thought from the Heroic Age of Greece to the Renaissance. Reading from original sources, this class will emphasize the discussion and analysis of ideas that have formed the basis of western thought. Included in the readings are selections from Herodotus, Cicero, St. Augustine, Boccaccio, Montaigne, and St. Ignatius of Loyola.

HIST 472. Classics of Western Thought II (C-1) (W)**3 hours**

A study of the key thinkers in the nineteenth and twentieth centuries. Reading from original sources, this class will emphasize discussion of critical ideas that have effected the evolution of contemporary social and political thought. Included in the readings are selections from Locke, Mill, Marx, Nietzsche, Lenin, and Hitler.

HIST 490. Senior Exam Preparation**1 hour**

Independent study and reading in preparation for the assessment exam taken by senior history majors.

HIST 295/495. Directed Study (C-1) (W)**1-3 hours**

A course emphasizing individual directed study. The instructor to whom a student is assigned will determine whether credit is upper or lower division. This course also includes credit offered by the History Department on directed study tours. Writing emphasis credit for HIST 495 only. Approval of the department is required prior to registration.

- HIST 499. Research Methods in History (C-1) (W) 3 hours**
Prerequisites: Word processing and familiarity with Internet are prerequisites to this course.
 Historical theories, procedures, and research methods are examined in conjunction with the preparation of a research project. (Fall)

POLITICAL SCIENCE

- PLSC 224. Macroeconomics 3 hours**
 See ECON 224 for course description.
- PLSC 254. American National and State Government (C-2) 3 hours**
 An examination of the operation of the executive, legislative, and judicial branches of government of the national, state, and local levels.
- PLSC 353. From Colony to Nation (C-2) (W) 3 hours**
 See HIST 353 for course description.
- PLSC 357. Modern America (C-2) (W) 3 hours**
 See HIST 357 for course description.
- PLSC 389. Vienna to Vietnam (C-2) (W) 3 hours**
 See HIST 389 for course description.
- PLSC 465. Topics in Political Science (C-2) 3 hours**
 See HIST 465 for course description.
- PLSC 471. Classics of Western Thought I (C-2) (W) 3 hours**
 See HIST 471 for course description.
- PLSC 472. Classics of Western Thought II (C-2) (W) 3 hours**
 See HIST 472 for course description.

GEOGRAPHY

- GEOG 204. World Geography 3 hours**
(C-2 credit for elementary education majors only).
 Maps, land forms, soil, mineral resources, weather, and climate are considered. Man's adjustment to various physiographic regions is studied. (Fall)
- GEOG 306. Cultural Geography (C-2) 3 hours**
 A course for student missionaries assigned to a country other than the United States. Focuses on geographic and social characteristics. Activities include assigned reading prior to departure, journal of on-site observations, formal paper after return to campus. Prior to departure, the student will make all arrangements with a teacher assigned by the Department of History. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235.

EDUCATION

- EDUC 438. Curriculum and Content Methods/History 1 hour**
Prerequisite: Admission to Teacher Education.
 Attention is given to methods and materials of instruction, planning, testing, and evaluating student performances, and the survey and evaluation of textbooks.

(C-1) (C-2) (W) See pages 25-29 for explanation of general education requirements.

INDUSTRIAL TECHNOLOGY

Chair: Dale Walters

Faculty: John Durichek, Kenneth Reynolds

Adjunct Faculty: Mark McGrath

Courses are offered which provide opportunity to balance learning with practical experience in the areas of woods, metals, printing, drafting, and auto maintenance. Objectives of these classes are:

1. To assist the student in growing toward his potential by providing classroom and lab experiences that nurture creativity.
2. To help the student learn to meet the challenges of daily living by providing "hands-on" experiences with elements of the environment.
3. To develop practical skills which will be useful throughout life as hobby and recreational activities as well as professional enhancement.
4. To provide opportunity for the student to develop tactile learning skills.
5. To introduce the student to opportunities in technical and service occupations.
6. To provide background for entrance into specialized technical and professional degree programs and occupations.

ASSESSMENT

All students will be given the NIASE (National Institute of Automotive Service Excellence) certification exams as specified by the department. Students who pass the exams become eligible for ASE certification after two years of experience following their training. The results of the exams are used to evaluate class offerings, teaching effectiveness, and program requirements.

Minor—Technology (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|-----------------------------------|--------------|---------------------------------------|--------------|
| TECH 111 Painting and Refinishing | 3 | TECH 167 Suspension, Steering & Align | 3 |
| TECH 112 Painting and Refinishing | 3 | TECH 223 Auto Body Repair | 3 |
| TECH 164 Automotive Maintenance | 2 | TECH 264 Automotive Repair | 3 |
| TECH 166 Auto Electrical Systems | 2 | Upper Division Courses | 6 |

CERTIFICATE PROGRAMS

Auto Body Technician

The auto body program is designed to teach panel repair, refinishing, estimating, frame straightening, and major collision repair. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as technicians provide their own hand and air tools, the student will be expected to purchase a skeleton set for personal use during the course. The department will assist the student in the purchase of these tools which will cost approximately \$350.

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Courses, cont.</u> | | <u>Hours</u> |
|-------------------------|--------------------------|--------------|--------------------------------|-----------------------------|--------------|
| TECH 110 | Panel and Spot Repair | 4 | TECH 120 | Collision Repair III | 5 |
| TECH 111-112 | Painting and Refinishing | 6 | TECH 187 | Suspension, Steering, Align | 3 |
| TECH 114 | Oxy-Acetylene Welding | 1 | TECH 264 | Automotive Repair | 3 |
| TECH 115 | Arc Welding | 2 | | Area B-1, Bib Studies | |
| TECH 116 | Collision Repair I | 4 | | OR | 3 |
| TECH 118 | Collision Repair II | 5 | | Area B-2, Religion | |

Sequence of Courses Auto Body Technician

A program which provides intensive exposure and correlated experience in various facets of auto body repair.

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|---------------------|------------------------|---------------------|-----------------------------|
| TECH 110 | Panel & Spot Repair | TECH 112 | Painting & Refin II |
| TECH 111 | Painting & Refinish. I | TECH 114 | Oxy Acetylene Welding |
| TECH 115 | Arc Welding | TECH 118 | Collision Repair II |
| TECH 116 | Collision Repair I | TECH 120 | Collision Repair III |
| TECH 264 | Auto Repair | TECH 187 | Suspension, Steering, Align |
| | Area B, Religion | | |
| | 3 | | 17 |
| | 19 | | |

At the end of the second semester and after nearly 1,000 hours of instruction and lab time the successful student will have skills to do:

- (1) Major collision repair
- (2) Frame alignment
- (3) Job estimating
- (4) Complete repaint work
- (5) Power plant and drive train repair

A certificate will be awarded upon satisfactory completion of 900 plus hours of instruction and lab time and the NIASE exam.

In addition to introductory repair projects, each student will be involved in at least three major collision repair projects.

Enrollment in the Auto Body Technician Program is limited.

Auto Mechanics Technician

The auto mechanics technician program is designed to teach an awareness of and proficiency in repairing engines, transmission/transaxles, drivetrain/axles, heat/air conditioning, electrical, engine computers and fuel injection systems. The typical student upon completion of the course should have gained sufficient skill and experience to obtain employment in the trade.

Inasmuch as technicians provide their own hand and air tools, the student will be encouraged to purchase a basic set.

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|-------------------------|-------------------------------|--------------------------------|-----------------------------|
| TECH 114 | Oxy-Acetylene Welding | TECH 177 | Engine Fuel & Emission Cont |
| TECH 115 | Arc Welding | TECH 178 | Heating & Air Conditioning |
| TECH 166 | Auto Electrical Systems | TECH 264 | Automotive Repair |
| TECH 187 | Suspension, Steering, Align | | Area B-1, Bib Studies |
| TECH 188 | Manual Drive Train | | OR |
| TECH 175 | Engine Rebuilding & Machining | | Area B-2, Religion |
| TECH 176 | Engine Perform & Computers | | |

Sequence of Courses
Auto Mechanics Technician

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|-------------------------|--------------|---------------------|----------------------------|--------------|
| TECH 115 | Arc Welding | 2 | TECH 114 | Oxy-Acetylene Weld | 1 |
| TECH 166 | Auto Elect Systems | 2 | TECH 167 | Suspension & Align | 3 |
| TECH 168 | Manual Drive Train | 3 | TECH 175 | Engine Rebuild/Mech | 4 |
| TECH 178 | Heat & Air Conditioning | 2 | TECH 176 | Engine Perform & Comp | 5 |
| TECH 264 | Auto Repair | 3 | TECH 177 | Engine Fuel & Emission Sys | 4 |
| | Area B, Religion | 3 | | | 17 |
| | | <u>15</u> | | | |

Students will be working on projects in a live operating repair shop environment.

At the end of the second semester they will complete approximately 1,000 hours of instruction and lab time, and if successful, will have skills to do:

1. Major engine repair
2. Driveability diagnosis and computer systems repair
3. Both 2 and 4 wheel alignment
4. Manual transmissions and drivetrain
5. Electrical diagnosis and repair
6. Heating and air conditioning service

A certificate will be awarded upon satisfactory completion of 900 plus hours of instruction and lab time and the NIASE exam.

Enrollment in the Auto Mechanics Technician Program is limited.

AFFILIATION PROGRAM

Students wishing a Bachelor of Technology degree in Graphic Arts or Technical Plant Services may take the following classes and transfer to Andrews University after one year:

| <u>B.T. Graphic Arts</u> | | <u>Hours</u> | <u>B.T. Technical Plant Services</u> | | <u>Hours</u> |
|--------------------------|---------------------------|--------------|--------------------------------------|---------------------------|--------------|
| ART 104 | Beginning Drawing I | 2 | CPTE 249 | Computer-Aided Drafting | 3 |
| ART 109 | Publications Design | 3 | ENGL 101 | College Composition | 3 |
| CPTE 245 | Computer-Aided Publishing | 3 | RELT 255 | Christian Beliefs | 3 |
| CPTR 105 | Intro to Word Processing | 1 | SOCI 125 | Intro to Sociology | 3 |
| CPTR 106 | Intro to Spreadsheets | 1 | SPCH 135 | Intro to Public Speaking | 3 |
| CPTR 107 | Intro to Data Base | 1 | TECH 114 | Oxy-Acetylene Welding | 1 |
| ENGL 101 | College Composition | 3 | TECH 115 | Arc Welding | 2 |
| JOUR 225 | Intro to Photography | 3 | TECH 149 | Intro to Mech Draw & CADD | 3 |
| RELT 255 | Christian Beliefs | 3 | TECH 154 | Woodworking | 3 |
| SOCI 125 | Intro to Sociology | 3 | TECH 174 | General Metals | 3 |
| SPCH 135 | Intro to Public Speaking | 3 | TECH 183 | Basic Electronics | 3 |
| TECH 145 | Intro to Graphic Arts | 3 | TECH 223 | Auto Body Repair | 3 |
| TECH 149 | Intro to Mech Draw & CADD | 3 | TECH 264 | Automotive Repair | 3 |
| TECH 295 | Directed Study | 1-3 | | | |

TECHNOLOGY

TECH 101. Technology Awareness

2 hours

This course is designed so that the student will become better acquainted with the field of technology. Emphasis is directed toward but not limited to the area of industrial technology, current and future developments in the industry and their impact on society. Along with an awareness of the qualifications to enter today's technological job market, special attention will be given to the training available at Southern and other SDA institutions. Open to all students.

TECH 110. Panel and Spot Repair 4 hours

Course is the first introduction to body repair. Student will learn how to straighten small dents, prepare panel for body fillers, prime and block ready for painting. Hand tool costs average \$200. (Fall)

TECH 111-112. Painting and Refinishing 3,3 hours

An introductory study of vehicle preparation and painting. Student will progress to doing complete refinish job himself. Student must purchase his own respirator and spray gun. Costs average \$200. (Fall, Spring)

TECH 114. Oxy-Acetylene Welding 1 hour

Gas welding and brazing of sheet metal in preparation for typical body shop welding jobs. Personal goggles required. Certain specialized welding processes will be taught, such as tig, cast iron, or others to be arranged on an individual basis. A lab fee of \$10 is charged. (Spring)

TECH 115. Arc Welding 2 hours

A class designed to give basic understanding of arc welding processes. Emphasis will be given to MIG, TIG, Heliarc, as well as conventional stick welding. Each student must purchase safety glasses and welding gloves. A lab fee of \$15 is charged. (Fall)

TECH 116. Collision Repair I 4 hours

Introduction to a major collision job. Students will probably work in pairs. Body alignment, frame straightening, panel replacement, and dent repair are involved. (Fall)

TECH 118. Collision Repair II 5 hours

Continuation of experience in collision repair, emphasizing body alignment, frame straightening, glass work, fiberglass repair, and body section replacement. There is no lecture component to this class, but rather is composed of four three periods laboratory per week. (Spring)

TECH 120. Collision Repair III 5 hours

A repetition of work experiences of Collision Repair I and II, but on an individual basis. Students will learn estimate writing, parts and supplies purchasing, shop management, and equipment maintenance. (Spring)

TECH 145. Introduction to Graphic Arts (G-2) 3 hours

Special emphasis is given to offset methods of copy preparation, camera techniques, platemaking, screen printing, and press work. Experience is offered in personal computer desktop publishing. Skills learned are applicable for personal and business communications. A supplies fee will be charged for projects produced in class. Average cost of projects approximately \$75. (Fall)

TECH 149. Introduction to Mechanical Drawing and CADD (G-2) 3 hours

A basic course in drafting, training the student in the use of instruments and the principles of orthographic projection, surface development, sectioning, pictorial representation, and dimensioned working drawings. Six periods of laboratory each week. Lecture as announced by the instructor. Instruments cost approximately \$75. (Fall)

TECH 151. Introduction to Architectural Drafting and CADD 3 hours

An introduction to skills and basic knowledge of architectural drafting. Emphasis is on lettering, orthographic projection, parallel line pictorial drawings, shades and shadows, and perspective drawing. Instruments cost approximately \$60. Open to all students.

TECH 154. Woodworking (G-2) 3 hours

A study of hand and machine tools, joinery, and proper methods of furniture construction. One period lecture, six periods laboratory each week. A supplies fee will be charged for the cost of the materials used in project construction. Generally, the costs have not exceeded \$225. (Spring)

TECH 164. Automotive Maintenance (G-2) 2 hours

A course designed to help the car owner become knowledgeable in the matters of buying, servicing, and maintaining the auto. The student will work on his own car or on one belonging to the shop. One period lecture and three periods laboratory each week. (Fall)

TECH 166. Auto Electrical Systems 2 hours

A course designed to give a basic understanding of automotive electrical systems. Basic electrical principles and trouble shooting techniques will be taught. Emphasis will be given to lighting, charging, starting and accessory systems. One period lecture, three periods lab per week.

TECH 167. Suspension, Steering and Alignment 3 hours

A course designed to give understanding of automotive suspension and steering systems. Chassis service, repair, and trouble shooting will be taught. Alignment of both two and four wheel alignment systems will be taught. One and a half period lecture and four and a half labs per week.

TECH 168. Manual Drive Train, Axles and Brakes 3 hours

A study of manual drive train operation, diagnosis and repair. Clutches, manual transmissions and transaxles. Brake system operation and repair of both conventional and ABS brake systems will be taught.

TECH 174. General Metals (G-2) 3 hours

Designed to acquaint the student with the many aspects of working with metals. Instruction will be given in the areas of forging, foundry, sheet metal, welding, plus hand and power-operated metal-cutting equipment. One period lecture and six periods laboratory each week. Project expenses average \$50. Each student must purchase his own safety glasses, welding gloves and goggles. (Spring, alternate years)

TECH 175. Engine Rebuilding and Machining 4 hours

A course designed to acquaint the student with major engine diagnosis, decision making and overhaul procedures. Machining and measuring processes related to engine rebuilding will be taught. Each student will be required to rebuild an engine and do engine machine work. Two periods lecture, six periods of lab per week.

TECH 176. Engine Performance and Computers 5 hours

Electronic and computerized ignition systems operating theory will be emphasized. Each student will be taught driveability diagnosis and trouble shooting techniques for electronic and computerized systems. Hands on diagnosis practice using diagnostic equipment on live vehicles will be given. Two periods of lecture, nine hours of lab per week.

TECH 177. Engine Fuel and Emission Controls 4 hours

Both carburetor and fuel injection operation theory, and standard and electronic carburetion systems theory will be covered. Fuel injection diagnosis and repair as well as carburetor overhaul procedures will be taught. Emission control operation as well as trouble shooting and service procedures will be taught. Two periods of lecture, six periods lab per week.

TECH 178. Heating and Air Conditioning**2 hours**

A course designed to teach the principles of heating and air conditioning systems. Emphasis will be given to service and trouble shooting of manual and automatic heating systems of late model cars. One period lecture, three periods lab per week.

TECH 183. Basic Electronics**3 hours**

An introductory course to the properties of electricity/electronics as they pertain to AC and DC electrical circuits and devices such as diodes, transistors and integrated circuits. Intended to introduce the beginning student to the field of electronics. Two three-hour lecture/labs each week.

TECH 223. Auto Body Repair (G-2)**3 hours**

An introductory course designed to acquaint the student with the principles and techniques used in repair of damaged body panels. Preferences will be given for class admission to those who have experience in doing automotive work and who have gas welding skills. Each student will need his own basic hand tools which cost approximately \$100. One period lecture and six periods laboratory per week. (Spring, alternate years)

TECH 254/354. Furniture Design and Construction**3 hours**

Prerequisite: TECH 154.

Emphasis will be placed on the design process as it pertains to woods and its combination with other materials. Two three-hour lecture/labs each week. (Available upon request)

TECH 264/364. Automotive Repair (G-2)**3 hours**

Prerequisite: TECH 164.

A course designed to give basic understanding of the automobile. Main emphasis is given to power plant and drive train design, operation and service. One period lecture and three periods laboratory each week. All lab learning experience is on actual cars either from the community or personal vehicles.

TECH 376. Automation and Robotics**4 hours**

See CPTE 376 for course description.

TECH 295/495. Directed Study**1-3 hours**

The study of a specific problem in the field of Technology. A written report of the problem may be required by the supervising instructor. Open only to those earning a minor in Technology. Offered on demand. (Fall, Spring)

(G-2) See pages 25-29 for explanation of general education requirements.

JOURNALISM AND COMMUNICATION

Chair: Pam Harris

Faculty: Volker Henning

Adjunct Faculty: Wesley Hasden, Stephen Ruf, Doug Walter, Billy Weeks

The Department of Journalism and Communication provides an educational environment in which future leaders in journalism, public relations and related areas can acquire the enduring ethical concepts, the intellectual discipline and the professional abilities necessary to the mastery and management of a wide range of writing, editing and other journalistic and public relations skills and techniques.

The department offers the Bachelor of Arts Degree with majors in Journalism (News Editorial), Broadcast Journalism, and Public Relations, and an Associate of Science Degree in Media Technology. Minors are also available in each of these areas as well as Advertising and Sales.

The Journalism (News Editorial) major prepares students for careers as reporters, writers and editors for daily and weekly newspapers, magazines, wire services, publishing houses and for the vast array of publications that serve the church, business, industry, governmental agencies, the medical field, colleges and universities and other non-profit organizations.

Students enrolling in the Broadcast Journalism major receive preparation for careers in both commercial and public radio and television as reporters, writers and editors in news and public affairs operations.

Public Relations majors are prepared for careers in every major segment of business, industry, government, the church, colleges, universities, hospitals and other medical institutions, and in a wide range of organizations.

The Journalism major, Broadcast Journalism major, and the Public Relations major also prepare students for entry into graduate schools nationwide.

The associate degree in Media Technology prepares the student for entry level positions in media production and operation or desk-top publishing.

The Advertising minor combined with such majors as Public Relations prepares students for careers in advertising copywriting, advertising design (when coupled with a second minor in Art), and creative directing.

The Sales minor combined with a Broadcast major prepares the student for jobs in the sale of commercials as well as in station development. By adding the Sales minor, a student multiplies job opportunities in the field of Broadcasting.

Students who select both a major and minor within the department must also take a minor outside the department.

Members of the faculty will advise each student in planning a study program that is supportive of individual career goals, that meets degree requirements of the Department of Journalism and Communication, including the intermediate level of a foreign language, and fulfills General Education requirements.

INTERNSHIPS AND ON-THE-JOB TRAINING

Because of the strong relationships which the department has developed with the Chattanooga area mass media, journalism, broadcast and public relations students have many opportunities to meet and work with professionals in television and radio news, in public relations, advertising and on daily and weekly newspapers.

Internships: Helping students locate internships on newspapers, in publishing houses, in public relations and fund development departments, in advertising agencies, and in radio and television newsrooms is a vital part of the education program provided by the department.

A Journalism Professional Advisory Council works with the department to provide internships that give on-the-job experience. The department also participates in the General Conference internship program in which students work in various denominational institutions. The college radio station, WSMC FM90.5 and the community newspaper, *Hamilton County News-Leader*, provide learning opportunities for students in a number of courses.

Campus Publications: Students can gain valuable experience as writers and editors by working on Student Association publications such as *Southern Accent*, the campus newspaper, and *Southern Memories*, the yearbook.

ASSESSMENT

To make satisfactory progress toward preparation for the job market, students majoring in the department will be expected to attend departmental assemblies and other professional meetings sponsored by the department.

Students should demonstrate their growing professionalism through involvement in the operation of WSMC FM90.5; in the publication of the *Southern Accent*, *Southern Memories*, or some other publication; or in communication activities for a campus, church, or community organization.

Participation in the departmental Communication Club and the Southern Society of Adventist Communicators as well as student membership in a national professional organization such as the Society of Professional Journalists, the International Association of Business Communicators, or the Public Relations Student Society of America are also evidences of professional commitment.

A cumulative evaluation form is kept in departmental files for each student majoring in the department. This form serves as a source of information for teachers asked to provide recommendations for students seeking practicums, internships, or job positions. Information concerning evidence of professional growth and achievement is added annually and a copy of the form shared with the student.

Students in the department will be given a writing skills test when they take JOUR 103, Introduction to Mass Communication, and JOUR 205, News Reporting. On the basis of the results, advisers will recommend any needed remediation, which students must complete before registering for other writing courses offered by the department.

Departmental effectiveness will be assessed by combining the results of the cumulative evaluations, student evaluations of courses, questionnaires completed by seniors near the time of graduation and again three years afterwards, questionnaires completed by supervisors of interns. An ongoing analysis of outlines of courses required for majors is made by the faculty to determine that the curriculum meets the objectives of the department and the standards of the Accrediting Council of Education in Journalism and Mass Communication.

PROGRAMS IN JOURNALISM, BROADCAST JOURNALISM, ADVERTISING, SALES, PUBLIC RELATIONS, AND MEDIA TECHNOLOGY

Major—B.A. Journalism (News Editorial) (30-31 Hours)

(With a minor selected outside the Journalism and Communication Department)

| Required Courses | | Hours | Required Cognates | | Hours |
|------------------|-------------------------------|-------|-------------------|------------------------------|-------|
| JOUR 103 | Intro to Mass Communication | 3 | ART 119 | Publication Design | 3 |
| JOUR 205 | News Reporting | 3 | CPTE 245 | Computer-Aided Publishing | 3 |
| JOUR 212 | Copyediting | 2 | CPTR 102 | Intro to Internet | 1 |
| JOUR 314 | Broadcast News Writing (W) | 3 | ECON 213 | Survey of Economics | 3 |
| JOUR 315 | Advanced Photography | 2 | PLSC 254 | American Nat & State Gov | 3 |
| JOUR 316 | Mag & Feature Art Writing (W) | | | Literature Electives | 3 |
| | OR | 3 | | Music/Art Appreciation Elect | 3 |
| JOUR 495 | Honors Project | | | Inter level Foreign language | 6 |
| JOUR 356 | Advanced Reporting (W) | 3 | | | |
| JOUR 427 | Mass Media Law & Ethics | 3 | | | |
| JOUR 487 | History of Mass Commun (W) | 3 | | | |
| JOUR 488 | Mass Communication & Soc (W) | 3 | | | |
| JOUR 497 | Journalism Internship | | | | |
| | OR | 2-3 | | | |
| JOUR 397 | Journalism Practicum | | | | |

Recommended Electives

| | | |
|----------|----------------------------|---|
| ART 219 | Intro to Computer Graphics | 3 |
| JOUR 497 | Journalism Internship | 3 |
| MATH 215 | Statistics | 3 |
| PREL 234 | Public Rel Princ & Theory | 2 |
| TECH 145 | Intro to Graphic Arts | 3 |

Complete at least 12 hours in three or more of the following areas: Behavioral Science, Business and Economics, Education, Health Science, History and Political Science, Literature and Fine Arts, Natural Science, Recreation and Physical Education, Religion, and Technology.

Sample Freshman Year Sequence

B.A. Journalism (News Editorial)

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|------------------------------|-------|--------------|------------------------|-------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| CPTE 245 | Computer-Aided Publishing | 3 | JOUR 125 | Intro to Photography | 3 |
| JOUR 103 | Intro to Mass Com | 3 | | (if needed) | |
| | Area D-1, Inter Foreign Lang | 3 | JOUR 205 | News Reporting | 3 |
| | Area B, Religion | 3 | | Area D-1, Inter F Lang | 3 |
| | | 16 | | Gen Ed, Minor or Elect | 4 |
| | | | | | 16 |

Major—B.A. Broadcast Journalism (30 Hours)*(With a minor selected from outside the Journalism and Communication Department)*

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|------------------------------|--------------|------------------------------|-------------------------------|--------------|
| JOUR 103 | Intro to Mass Communication | 3 | BMKT 326 | Introduction to Marketing | 3 |
| JOUR 205 | News Reporting | 3 | PLSC 254 | Amer National & State Gover | 3 |
| JOUR 201 | Foundations of Broadcasting | 3 | PREL 234 | Pub Rel Principles and Theory | 2 |
| JOUR 202 | Broadcasting Techniques | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| JOUR 314 | Broadcast News Writing (W) | 3 | | Inter level of a foreign lang | 6 |
| JOUR 317 | Broadcast Management | 3 | | | |
| JOUR 427 | Mass Media Law and Ethics | 3 | | | |
| JOUR 487 | History of Mass Commun (W) | | | | |
| | OR | 3 | | | |
| JOUR 488 | Mass Communication & Soc (W) | | | | |
| 6 Hours From: | | | Recommended Electives | | |
| JOUR 315 | Advanced Photography | 2-3 | HMNT 205 | Arts and Ideas | 3 |
| JOUR 227/327 | Video Production | 3 | MATH 215 | Statistics | 3 |
| JOUR 356 | Advanced Reporting (W) | 3 | TECH 183 | Basic Electronics | 3 |
| JOUR 423 | Broadcast Programming | 1-3 | CPTE 245/345 | Computer-Aided Publishing | 3 |
| JOUR 497 | Internship: Broadcasting | 3 | | | |

Sample Freshman Year Sequence
B.A. Broadcast Journalism

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|------------------------|--------------|---------------------|----------------------------|--------------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| JOUR 103 | Intro to Mass Com | 3 | JOUR 201 | Found of Broadcast | 3 |
| | Area D-1, Int For Lang | 3 | JOUR 205 | News Reporting | 3 |
| | Area B, Religion | 3 | | Area D-1, Int For Lang | 3 |
| | Gen Ed, Minor or Elect | 3 | | Gen Ed, Minor or Electives | 4 |
| | | 15 | | | 16 |

Major—B.A. Public Relations (31 Hours)*(With a minor selected from outside the Journalism and Communication Department)*

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|--------------------------------|--------------|------------------------------|---------------------------------|--------------|
| JOUR 103 | Intro to Mass Communication | 3 | ART 119 | Publication Design | 3 |
| JOUR 205 | News Reporting | 3 | BMKT 326 | Intro to Marketing | 3 |
| JOUR 315 | Advanced Photography | 2 | CPTE 245 | Computer-Aided Publishing | 3 |
| JOUR 316 | Mag & Feature Art Writing (W) | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| JOUR 356 | Advanced Reporting (W) | 3 | | Inter level of foreign language | 6 |
| JOUR 427 | Mass Media Law and Ethics | | | Lit or Fine Arts Electives | 3 |
| | OR | 3 | | | |
| JOUR 488 | Mass Communication and Soc (W) | | | | |
| PREL 234 | Pub Rel Principles and Theory | 2 | | | |
| PREL 344 | Fundamentals of Advertising | 3 | | | |
| PREL 365 | Public Relations Techniques | 3 | | | |
| PREL 406 | Persuasion and Propaganda | 3 | | | |
| PREL 482 | Public Relations Campaign | 3 | | | |
| | | | Recommended Electives | | |
| | | | JOUR 202 | Broadcasting Techniques | 3 |
| | | | JOUR 212 | Copyediting | 2 |
| | | | JOUR 314 | Broadcast News Writing (W) | 3 |
| | | | JOUR 227/327 | Video Production | 3 |
| | | | MATH 215 | Statistics | 3 |
| | | | PREL 368 | Fund Development | 3 |
| | | | PREL 497 | Public Relations Internship | 3 |
| | | | TECH 145 | Introduction to Graphic Arts | 3 |

Sample Freshman Year Sequence
B.A. Public Relations

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|------------------------------|--------------|---------------------|------------------------------|--------------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| JOUR 103 | Intro to Mass Com | 3 | PREL 234 | Public Relations Prin | 2 |
| CPTE 245 | Computer-Aided Publishing | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| | Area D-1, Inter Foreign Lang | 3 | | Area D-1, Inter Foreign Lang | 3 |
| | Area B, Religion | 3 | | Gen Ed, Minor or Electives | 5 |
| | | 15 | | | 16 |

Major—A.S. Media Technology (30 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Graphics Emphasis</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|--------------------------|-----------------------------|--------------|
| ART 125 | Graphic Design Principles I | 3 | ART 119 | Publication Design I | 3 |
| CPTE 245 | Computer-Aided Publishing | 3 | ART 120 | Publication Design II | 3 |
| JOUR 103 | Intro to Mass Comm | 3 | ART 126 | Graphic Design Prin II | 3 |
| JOUR 125 | Intro to Photography | 3 | TECH 145 | Intro to Graphic Arts | 3 |
| JOUR 210 | Presentation Media | 1 | | | |
| JOUR 297 | Practicum: Media Tech | 2 | <u>Media Emphasis</u> | | |
| JOUR/PREL | Electives | 3 | JOUR 201 | Foundations of Broadcasting | 3 |
| | | | JOUR 202 | Broadcasting Techniques | 3 |
| | | | JOUR 227 | Video Production | 3 |
| | | | JOUR 315 | Advanced Photography | 3 |

**Sample Freshman Year Sequence
A.S. Media Technology**

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|---------------------------|--------------|------------------------|-----------------------------|--------------|
| CPTE 245 | Computer-Aided Publishing | 3 | ART 119 | Publication Design | |
| ENGL 101 | College Composition | 3 | | OR | 3 |
| JOUR 103 | Intro to Mass Com | 3 | JOUR 201 | Foundations of Broadcasting | |
| JOUR 125 | Intro to Photography | 3 | ENGL 102 | College Composition | 3 |
| | Area B, Religion | 3 | Jour/Prel Electives or | | |
| | | 15 | Gen Ed Electives | | 10 |
| | | | | | 16 |

Minor—Advertising (18-20 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Select 2-3 Hours From:</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|-------------------------------|-----------------------------|--------------|
| ART 119 | Publication Design | 3 | ART 110 | Design Principles | 3 |
| BMKT 326 | Introduction to Marketing | 3 | BMKT 327 | Consumer Behavior | 3 |
| CPTE 245/345 | Computer-Aided Publishing | 3 | BMKT 423 | Promotional Strategy | 3 |
| JOUR 103 | Intro to Mass Communication | 3 | JOUR 125 | Introduction to Photography | 3 |
| PREL 344 | Fundamentals of Advertising | 3 | PREL 244 | Personal Selling | 2 |
| PREL 354 | Advertising Copywriting | 2 | PREL 297/397 | Practicum: Advertising | 1-3 |
| | | | PREL 406 | Persuasion and Propaganda | 3 |

Minor—Journalism (News Editorial) (18 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>One of the Following:</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|------------------------------|-------------------------------|--------------|
| JOUR 103 | Intro to Mass Communication | 3 | JOUR 316 | Mag & Feature Art Writing (W) | 3 |
| JOUR 205 | News Reporting | 3 | JOUR 356 | Advanced Reporting (W) | 3 |
| JOUR 212 | Copyediting | 2 | | | |
| | Department Elective | 1 | <u>Two of the following:</u> | | |
| | | | JOUR 427 | Mass Media Law and Ethics | 3 |
| | | | JOUR 487 | History of Mass Commun (W) | 3 |
| | | | JOUR 488 | Mass Commun and Soc (W) | 3 |

Minor—Broadcast Journalism (18 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>3 Hours from Broadcast Journalism Major requirements or the following:</u> | | |
|-------------------------|-----------------------------|--------------|---|-------------------------|---|
| JOUR 103 | Intro to Mass Communication | 3 | BMKT 326 | Intro to Marketing | 3 |
| JOUR 201 | Foundations of Broadcasting | 3 | PLSC 254 | Amer Natl & State Gov | 3 |
| JOUR 202 | Broadcasting Techniques | 3 | PREL 234 | Pub Rel Prin and Theory | 2 |
| JOUR 205 | News Reporting | 3 | PREL 244 | Personal Selling | 2 |
| JOUR 314 | Broadcast News Writing (W) | 3 | | | |

Minor—Public Relations (20 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Courses, cont.</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|--------------------------------|-----------------------------|--------------|
| ART 119 | Publication Design | 3 | PREL 344 | Fundamentals of Advertising | |
| JOUR 103 | Intro to Mass Communication | 3 | | OR | 3 |
| JOUR 205 | News Reporting | 3 | PREL 406 | Persuasion and Propaganda | |
| PREL 234 | Pub Rel Prin and Theory | 2 | PREL 365 | Public Relations Techniques | 3 |
| | | | CPTE 345 | Computer-Aided Publishing | 3 |

Minor—Sales (19 Hours)

| Required Courses | | Hours | Select 3 Hours from: | | Hours |
|-------------------------|-----------------------------|--------------|-----------------------------|---------------------------|--------------|
| BMKT 326 | Intro to Marketing | 3 | BMKT 328 | Sales Management | 3 |
| BMKT 327 | Consumer Behavior | 3 | BMKT 423 | Promotional Strategy | 3 |
| JOUR 103 | Intro to Mass Communication | 3 | PREL 406 | Persuasion and Propaganda | 3 |
| PREL 244 | Personal Selling | 2 | PREL 297/397 | Practicum: Sales | 3 |
| PREL 344 | Fundamentals of Advertising | 3 | | | |
| PREL 354 | Advertising Copywriting | 2 | | | |

JOURNALISM**JOUR 080. Basic Grammar and Usage 1 hour**

Instruction and exercises in spelling, sentence sense, punctuation, and word choice. Designed to fit the framework of grammar and usage requirements in the *Associated Press Stylebook*.

JOUR 103. Introduction to Mass Communication (G-2) 3 hours

Overview of the development and characteristics of mass media, with emphasis on media in the United States including newspapers, radio, television, photography, film, sound recording, books, magazines, advertising, public relations, and new media technology. Attention is given to theories of communication and how to be a critical and discriminating consumer of mass media.

JOUR 125. Introduction to Photography (G-1) 3 hours

Instruction in use of the camera and light meter; study of elements that constitute good photo composition, darkroom techniques involving film development, negative enlargement and print finishing. Students supply their own 35mm cameras with adjustable f-stops and shutter speeds. A limited number of rental cameras are available. Two hours of lecture, three hours of laboratory each week. Supply lab fee of \$95 charged in addition to tuition. This course does not count toward a major or minor in the Journalism and Communication Department.

JOUR 201. Foundations of Broadcasting 3 hours

Provides an understanding of broadcasting and related industries. Basic theories and practices of radio, television, cable operations, and other electronic media are covered. (Alternate years)

JOUR 202. Broadcasting Techniques 3 hours

Introduction to audio production in the context of the broadcast station. Instruction in the technical aspects of production for radio and television. Oral communication emphasis: Techniques in announcing for a variety of program types including commercials, news, interviews, and talk shows. (Alternate years)

JOUR 205. News Reporting (G-2) 3 hours

Prerequisite: Ability to type at least 30 wpm.

News gathering and research techniques; development of newswriting skills and style. Emphasis on clarity of writing, accuracy, balance and fairness and on meeting deadlines in covering news events and interviewing news sources. Oral communication emphasis: Interviewing.

JOUR 210. Presentation Media 1 hour

Prerequisite: CPT 245.

A laboratory course in the selection, operation, and use of presentation media. Preparation of transparencies, slides, graphics, and audio materials.

JOUR 212. Copyediting 2 hours

Prerequisite: JOUR 205 or consent of instructor.

Principles and practices of preparing copy for publication including headline writing, picture editing, and writing photo captions. Use of the Associated Press Stylebook. Focus is on accuracy, newsworthiness, language effectiveness, legality, and good taste in editing copy. (Alternate years)

JOUR 314. Broadcast News Writing (W) 3 hours

Prerequisites: JOUR 080, 80 percent or better on departmental writing skills test, or JOUR 212; JOUR 205 or consent of instructor are also required.

Gathering information, interviewing, writing and editing for the broadcast media. Preparation of news and feature copy for release on the college radio station; instruction in writing spot announcements. (Alternate years)

JOUR 315. Advanced Photography (G-1) 2-3 hours

Prerequisite: JOUR 125 or equivalent.

Advanced photographic and darkroom techniques with emphasis on photojournalism, studio and corporate photography and creative use of the camera in producing photo essays, picture stories for publication and photo collections for exhibit. Print journalists will create projects using photojournalism skills while public relations majors will focus on studio and corporate photography techniques in their projects. Students supply their own cameras with adjustable f-stops and shutter speeds. One hour of lecture, three hours of laboratory each week for 2 hours credit. Students registering for 3 hours will complete extra projects and additional laboratory and field work. Supply lab fee of \$95 charged in addition to tuition.

JOUR 316. Magazine and Feature Article Writing (W) 3 hours

Prerequisite: JOUR 080, 80 percent or better on departmental writing skills test, or JOUR 212.

Researching, writing and marketing the factual magazine piece and the newspaper feature article. Developing writing style through creative use of the English language. Oral communication emphasis: Interviewing and reading aloud.

JOUR 317. Broadcast Management 3 hours

Prerequisite: JOUR 201.

The 100,000-watt college radio station WSMC-FM 90.5 provides the setting in which students learn the principles of broadcast management as they apply to radio and television. Class members become familiar with day-to-day station operations, including control room procedures, announcing, production, broadcast news and programming. Professionals from both radio and television serve as lecturers. (Alternate years)

JOUR 227/327. Video Production 3 hours

Introduction to the basic procedures of producing non-studio video programs. Emphasis will be given to lighting, audio, and editing techniques. The student will make extensive use of portable video and video editing equipment. Supply lab fee of \$50 charged in addition to tuition.

JOUR 356. Advanced Reporting (W) 3 hours

Prerequisites: JOUR 080, 80 percent or better on departmental writing skills test, or JOUR 212; JOUR 205 also required.

Reporting public affairs and writing articles in special areas after extensive research, interviews, and analysis: politics, government, law enforcement, society, science, medicine, education, religion, the arts, recreation, business. Oral communication emphasis: interviewing. (Alternate years)

JOUR 297/397. Practicum**1-3 hours****Prerequisite:** Consent of instructor before arranging for practicum.

Supervised work experience in print or broadcast journalism. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235.

JOUR 423. Broadcast Programming**1-3 hours****Prerequisite:** JOUR 201.

A study of audiences and audience research, programming theories, and formats used in modern broadcast program planning. Emphasis also given to current FCC regulations and policies governing the broadcast industry. (Every third summer)

JOUR 427. Mass Media Law and Ethics**3 hours**

Study of the legal, ethical and constitutional issues affecting the media and the news gathering and dissemination process. Concepts of libel, privacy, free press, fair-trial, contempt of court, access to information, protection of sources, copyright law and government regulation of the media.

JOUR 165/465. Topics in Communication**1-3 hours**

Selected topics in broadcast journalism, print journalism, public relations, or related areas of communication.

JOUR 487. History of Mass Communication (W)**3 hours**

Development of the press in the United States from colonial times to the present, its influence on American government and institutions; rise of the mass media system, including newspapers, magazines, advertising, public relations, radio, television and the impact of the media system on society. Oral communication emphasis: Presenting reading and research reports. (Alternate years)

JOUR 488. Mass Communication and Society (W)**3 hours**

This seminar provides for informed student participation in the examination of the role and function of the mass media system in the United States; the concept of social responsibility as a constraint upon the media; ethical, social, economic and political issues involved in the function of newspapers, magazines, radio, television, advertising and public relations. Emphasis on reading, writing media critiques and on analysis of concepts and ideas. The course also includes an introduction to research methods for the study of mass communication. Oral communication emphasis: Presenting reading and research reports. (Alternate years)

JOUR 295/495. Directed Study**1-4 hours**

For students who want to do independent research and writing in a specialized area of the mass media. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

JOUR 497. Journalism Internship**3 hours****Prerequisite:** Completion of half the requirements for a major or minor in broadcast or news editorial journalism and departmental approval before arranging for internship.

Students work at a newspaper, magazine, broadcast station, or other agency to obtain on-the-job journalism experience, preferably during an eight- to 12-week period the summer between the junior and senior year when no other college course is taken. At least 270 clock hours of work experience are required. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235.

PUBLIC RELATIONS**PREL 234. Public Relations Principles and Theory 2 hours**

Basic Public Relations principles, philosophy and theory as they relate to the historical development and contemporary practice of public relations; analysis of the public relations role in business, industry and non-profit organizations and of the functions and responsibilities of the public relations practitioner.

PREL 244. Personal Selling 2 hours

Principles and techniques of selling products and services based on understanding of buyer behavior, time and stress management, and effective persuasion. (Alternate years)

PREL 344. Fundamentals of Advertising 3 hours

Advertising theories and principles; fundamentals of advertising copy writing, layout and design. Overview of research and campaign planning for public relations and marketing.

PREL 354. Advertising Copywriting 2 hours

Principles and practices in writing and preparing advertising messages for the mass media. Analysis of successful advertising copy as well as opportunity for students to develop their own copywriting skills are part of the course. Social responsibility and ethics of the advertiser and copywriter are an integral part of instruction. (Alternate years)

PREL 365. Public Relations Techniques 3 hours

Prerequisites: JOUR 080, 80 percent or better on departmental writing skills test, or JOUR 212; JOUR 205 and CPTE 245/345 are also required.

Communications techniques used in public relations to identify and reach specified audiences through mass media channels and through controlled media. Preparation of press releases, brochures, newsletters, reports, audio-visuals, speeches and media campaigns; planning and conducting special events.

PREL 368. Fund Development 1-3 hours

Study of fund-raising principles and concepts; techniques used in planning, organizing and carrying out a fund-raising campaign; developing prospect lists, writing proposals, identifying and training development leadership, working with foundations. (Every third summer)

PREL 297/397. Practicum 1-3 hours

Prerequisite: Consent of instructor before arranging for practicum.

Supervised work experience in public relations, advertising, or sales. At least 90 clock hours of work experience are required for each semester hour of credit. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235.

PREL 406. Persuasion and Propaganda 3 hours

Historical origin and contemporary uses of propaganda; the concept of public opinion; motivational tools and techniques to achieve public response; characteristics of publics and how they are influenced. (Alternate years)

PREL 482. The Public Relations Campaign 3 hours

The public relations function in the context of the organizational communications and decision-making process. Application of communications theory and techniques in developing both internal and external communications campaigns; selected case studies. (Alternate years)

PREL 295/495. Directed Study**1-4 hours**

For students who want to do independent research and writing in a specialized area of public relations, advertising or marketing. Directed study topics will be selected with guidance from the instructor who will serve as a consultant to the student in carrying out the project.

PREL 497. Public Relations Internship**3 hours**

Prerequisites: Completion of half the requirements for a major or minor in public relations and departmental approval before arranging for internship.

Students work at a public relations office, department or agency to obtain on-the-job public relations experience, preferably during an eight- to 12-week period the summer between the junior and senior year when no other college course is taken. At least 270 clock hours of work experience are required. Procedures and guidelines are available from the department. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235.

WORKSHOPS**JOUR 175/475. Communication Workshop****1-3 hours**

One semester-hour credit will be available for 40 clock hours of active participation in workshops conducted by the department in such areas as free-lance writing, news writing, video production, editing newsletters, crisis communication, public relations writing, fund raising, writing for student publications, editing student publications, and advising student publications. Advanced students may earn additional credits by completing a project started during the workshop. May be repeated for credit. (Summer)

(G-1) (G-2) (W) See pages 22-23 and 25-29 for explanation of general degree and general education requirements.

| Required Courses | | Hours | |
|------------------|------------------------------|-------|--|
| MATH 101 | Calculus I | 5 | |
| MATH 102 | Calculus II | 5 | |
| MATH 103 | Calculus III | 5 | |
| MATH 201 | Stat Theory and Logic | 5 | |
| MATH 202 | Algebraic Structures | 5 | |
| MATH 203 | Combinatorics | 5 | |
| MATH 204 | Linear Algebra | 5 | |
| MATH 205 | Discrete Structures | 5 | |
| MATH 206 | Mathematical Proofs | 5 | |
| MATH 207 | Mathematical Modeling | 5 | |
| MATH 208 | Mathematical Computing | 5 | |
| MATH 209 | Mathematical History | 5 | |
| MATH 210 | Mathematical Philosophy | 5 | |
| MATH 211 | Mathematical Education | 5 | |
| MATH 212 | Mathematical Research | 5 | |
| MATH 213 | Mathematical Writing | 5 | |
| MATH 214 | Mathematical Communication | 5 | |
| MATH 215 | Mathematical Creativity | 5 | |
| MATH 216 | Mathematical Problem Solving | 5 | |
| MATH 217 | Mathematical Modeling | 5 | |
| MATH 218 | Mathematical Computing | 5 | |
| MATH 219 | Mathematical History | 5 | |
| MATH 220 | Mathematical Philosophy | 5 | |
| MATH 221 | Mathematical Education | 5 | |
| MATH 222 | Mathematical Research | 5 | |
| MATH 223 | Mathematical Writing | 5 | |
| MATH 224 | Mathematical Communication | 5 | |
| MATH 225 | Mathematical Creativity | 5 | |
| MATH 226 | Mathematical Problem Solving | 5 | |
| MATH 227 | Mathematical Modeling | 5 | |
| MATH 228 | Mathematical Computing | 5 | |
| MATH 229 | Mathematical History | 5 | |
| MATH 230 | Mathematical Philosophy | 5 | |
| MATH 231 | Mathematical Education | 5 | |
| MATH 232 | Mathematical Research | 5 | |
| MATH 233 | Mathematical Writing | 5 | |
| MATH 234 | Mathematical Communication | 5 | |
| MATH 235 | Mathematical Creativity | 5 | |
| MATH 236 | Mathematical Problem Solving | 5 | |
| MATH 237 | Mathematical Modeling | 5 | |
| MATH 238 | Mathematical Computing | 5 | |
| MATH 239 | Mathematical History | 5 | |
| MATH 240 | Mathematical Philosophy | 5 | |
| MATH 241 | Mathematical Education | 5 | |
| MATH 242 | Mathematical Research | 5 | |
| MATH 243 | Mathematical Writing | 5 | |
| MATH 244 | Mathematical Communication | 5 | |
| MATH 245 | Mathematical Creativity | 5 | |
| MATH 246 | Mathematical Problem Solving | 5 | |
| MATH 247 | Mathematical Modeling | 5 | |
| MATH 248 | Mathematical Computing | 5 | |
| MATH 249 | Mathematical History | 5 | |
| MATH 250 | Mathematical Philosophy | 5 | |
| MATH 251 | Mathematical Education | 5 | |
| MATH 252 | Mathematical Research | 5 | |
| MATH 253 | Mathematical Writing | 5 | |
| MATH 254 | Mathematical Communication | 5 | |
| MATH 255 | Mathematical Creativity | 5 | |
| MATH 256 | Mathematical Problem Solving | 5 | |
| MATH 257 | Mathematical Modeling | 5 | |
| MATH 258 | Mathematical Computing | 5 | |
| MATH 259 | Mathematical History | 5 | |
| MATH 260 | Mathematical Philosophy | 5 | |
| MATH 261 | Mathematical Education | 5 | |
| MATH 262 | Mathematical Research | 5 | |
| MATH 263 | Mathematical Writing | 5 | |
| MATH 264 | Mathematical Communication | 5 | |
| MATH 265 | Mathematical Creativity | 5 | |
| MATH 266 | Mathematical Problem Solving | 5 | |
| MATH 267 | Mathematical Modeling | 5 | |
| MATH 268 | Mathematical Computing | 5 | |
| MATH 269 | Mathematical History | 5 | |
| MATH 270 | Mathematical Philosophy | 5 | |
| MATH 271 | Mathematical Education | 5 | |
| MATH 272 | Mathematical Research | 5 | |
| MATH 273 | Mathematical Writing | 5 | |
| MATH 274 | Mathematical Communication | 5 | |
| MATH 275 | Mathematical Creativity | 5 | |
| MATH 276 | Mathematical Problem Solving | 5 | |
| MATH 277 | Mathematical Modeling | 5 | |
| MATH 278 | Mathematical Computing | 5 | |
| MATH 279 | Mathematical History | 5 | |
| MATH 280 | Mathematical Philosophy | 5 | |
| MATH 281 | Mathematical Education | 5 | |
| MATH 282 | Mathematical Research | 5 | |
| MATH 283 | Mathematical Writing | 5 | |
| MATH 284 | Mathematical Communication | 5 | |
| MATH 285 | Mathematical Creativity | 5 | |
| MATH 286 | Mathematical Problem Solving | 5 | |
| MATH 287 | Mathematical Modeling | 5 | |
| MATH 288 | Mathematical Computing | 5 | |
| MATH 289 | Mathematical History | 5 | |
| MATH 290 | Mathematical Philosophy | 5 | |
| MATH 291 | Mathematical Education | 5 | |
| MATH 292 | Mathematical Research | 5 | |
| MATH 293 | Mathematical Writing | 5 | |
| MATH 294 | Mathematical Communication | 5 | |
| MATH 295 | Mathematical Creativity | 5 | |
| MATH 296 | Mathematical Problem Solving | 5 | |
| MATH 297 | Mathematical Modeling | 5 | |
| MATH 298 | Mathematical Computing | 5 | |
| MATH 299 | Mathematical History | 5 | |
| MATH 300 | Mathematical Philosophy | 5 | |

Minor—Mathematics (18 Hours)

| Required Courses | | Hours | |
|------------------|------------------------------|-------|--|
| MATH 101 | Calculus I | 5 | |
| MATH 102 | Calculus II | 5 | |
| MATH 103 | Calculus III | 5 | |
| MATH 201 | Stat Theory and Logic | 5 | |
| MATH 202 | Algebraic Structures | 5 | |
| MATH 203 | Combinatorics | 5 | |
| MATH 204 | Linear Algebra | 5 | |
| MATH 205 | Discrete Structures | 5 | |
| MATH 206 | Mathematical Proofs | 5 | |
| MATH 207 | Mathematical Modeling | 5 | |
| MATH 208 | Mathematical Computing | 5 | |
| MATH 209 | Mathematical History | 5 | |
| MATH 210 | Mathematical Philosophy | 5 | |
| MATH 211 | Mathematical Education | 5 | |
| MATH 212 | Mathematical Research | 5 | |
| MATH 213 | Mathematical Writing | 5 | |
| MATH 214 | Mathematical Communication | 5 | |
| MATH 215 | Mathematical Creativity | 5 | |
| MATH 216 | Mathematical Problem Solving | 5 | |
| MATH 217 | Mathematical Modeling | 5 | |
| MATH 218 | Mathematical Computing | 5 | |
| MATH 219 | Mathematical History | 5 | |
| MATH 220 | Mathematical Philosophy | 5 | |
| MATH 221 | Mathematical Education | 5 | |
| MATH 222 | Mathematical Research | 5 | |
| MATH 223 | Mathematical Writing | 5 | |
| MATH 224 | Mathematical Communication | 5 | |
| MATH 225 | Mathematical Creativity | 5 | |
| MATH 226 | Mathematical Problem Solving | 5 | |
| MATH 227 | Mathematical Modeling | 5 | |
| MATH 228 | Mathematical Computing | 5 | |
| MATH 229 | Mathematical History | 5 | |
| MATH 230 | Mathematical Philosophy | 5 | |
| MATH 231 | Mathematical Education | 5 | |
| MATH 232 | Mathematical Research | 5 | |
| MATH 233 | Mathematical Writing | 5 | |
| MATH 234 | Mathematical Communication | 5 | |
| MATH 235 | Mathematical Creativity | 5 | |
| MATH 236 | Mathematical Problem Solving | 5 | |
| MATH 237 | Mathematical Modeling | 5 | |
| MATH 238 | Mathematical Computing | 5 | |
| MATH 239 | Mathematical History | 5 | |
| MATH 240 | Mathematical Philosophy | 5 | |
| MATH 241 | Mathematical Education | 5 | |
| MATH 242 | Mathematical Research | 5 | |
| MATH 243 | Mathematical Writing | 5 | |
| MATH 244 | Mathematical Communication | 5 | |
| MATH 245 | Mathematical Creativity | 5 | |
| MATH 246 | Mathematical Problem Solving | 5 | |
| MATH 247 | Mathematical Modeling | 5 | |
| MATH 248 | Mathematical Computing | 5 | |
| MATH 249 | Mathematical History | 5 | |
| MATH 250 | Mathematical Philosophy | 5 | |
| MATH 251 | Mathematical Education | 5 | |
| MATH 252 | Mathematical Research | 5 | |
| MATH 253 | Mathematical Writing | 5 | |
| MATH 254 | Mathematical Communication | 5 | |
| MATH 255 | Mathematical Creativity | 5 | |
| MATH 256 | Mathematical Problem Solving | 5 | |
| MATH 257 | Mathematical Modeling | 5 | |
| MATH 258 | Mathematical Computing | 5 | |
| MATH 259 | Mathematical History | 5 | |
| MATH 260 | Mathematical Philosophy | 5 | |
| MATH 261 | Mathematical Education | 5 | |
| MATH 262 | Mathematical Research | 5 | |
| MATH 263 | Mathematical Writing | 5 | |
| MATH 264 | Mathematical Communication | 5 | |
| MATH 265 | Mathematical Creativity | 5 | |
| MATH 266 | Mathematical Problem Solving | 5 | |
| MATH 267 | Mathematical Modeling | 5 | |
| MATH 268 | Mathematical Computing | 5 | |
| MATH 269 | Mathematical History | 5 | |
| MATH 270 | Mathematical Philosophy | 5 | |
| MATH 271 | Mathematical Education | 5 | |
| MATH 272 | Mathematical Research | 5 | |
| MATH 273 | Mathematical Writing | 5 | |
| MATH 274 | Mathematical Communication | 5 | |
| MATH 275 | Mathematical Creativity | 5 | |
| MATH 276 | Mathematical Problem Solving | 5 | |
| MATH 277 | Mathematical Modeling | 5 | |
| MATH 278 | Mathematical Computing | 5 | |
| MATH 279 | Mathematical History | 5 | |
| MATH 280 | Mathematical Philosophy | 5 | |
| MATH 281 | Mathematical Education | 5 | |
| MATH 282 | Mathematical Research | 5 | |
| MATH 283 | Mathematical Writing | 5 | |
| MATH 284 | Mathematical Communication | 5 | |
| MATH 285 | Mathematical Creativity | 5 | |
| MATH 286 | Mathematical Problem Solving | 5 | |
| MATH 287 | Mathematical Modeling | 5 | |
| MATH 288 | Mathematical Computing | 5 | |
| MATH 289 | Mathematical History | 5 | |
| MATH 290 | Mathematical Philosophy | 5 | |
| MATH 291 | Mathematical Education | 5 | |
| MATH 292 | Mathematical Research | 5 | |
| MATH 293 | Mathematical Writing | 5 | |
| MATH 294 | Mathematical Communication | 5 | |
| MATH 295 | Mathematical Creativity | 5 | |
| MATH 296 | Mathematical Problem Solving | 5 | |
| MATH 297 | Mathematical Modeling | 5 | |
| MATH 298 | Mathematical Computing | 5 | |
| MATH 299 | Mathematical History | 5 | |
| MATH 300 | Mathematical Philosophy | 5 | |

MATHEMATICS

Chair: Lawrence Hanson

Faculty: Robert Moore, Art Richert

Throughout recorded history mathematics and mathematical thinking have influenced man's culture to an extent that even many well-educated people fail to appreciate. *The Elements* of Euclid, the invention of a place-value numeration system, the invention of the calculus, the development of statistical inference, and more recently the development of computers, to name just a few, are mathematical contributions to civilization which have significantly affected the philosophies, commerce, science, and technology of mankind.

The Mathematics Department seeks to transmit this mathematical heritage to the students of Southern College by (1) introducing students to mathematical concepts and techniques and the disciplined, logical thinking required to successfully apply them to a variety of problem-solving experiences, (2) providing a stage of the formal education of professional mathematicians, (3) educating teachers of mathematics, and (4) providing appropriate courses for users of mathematics.

ASSESSMENT

All mathematics majors are required to take the Educational Testing Service Major Field Achievement Test in mathematics during the spring semester of their senior year. The results of this examination are used in ongoing review of the curriculum in mathematics.

PROGRAMS IN MATHEMATICS

Major—B.A. Mathematics (30 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | <u>Hours</u> |
|-------------------------|---------------------------|--------------|---|--------------------------|
| MATH 181 | Calculus I | 3 | CPTR 131 | Fundamentals of Prog I 3 |
| MATH 182 | Calculus II | 4 | | |
| MATH 218 | Calculus III | 4 | | |
| MATH 216 | Set Theory and Logic | 2 | Two courses in any department having an oral communication component. MATH 319, 415, and 485 have this component. | |
| MATH 318 | Algebraic Structures | 3 | | |
| MATH 200 | Elementary Linear Algebra | 2 | | |
| | OR | | | |
| MATH 319 | Linear Algebra | 3 | | |
| MATH 411 | Intermediate Analysis | 3 | | |
| MATH 485 | Mathematics Seminar (W) | 1 | | |
| | Math Electives | 7-8 | | |

Major—B.S. Actuarial Studies (44 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | |
|-------------------------|-------------------------------|--------------|---|--------------------------|---|
| ACCT 221-222 | Prin of Accounting | 6 | CPTR 108 | Intro to Spreadsheets | 1 |
| BUAD 314 | Quant Methods for Bus Decis | 3 | CPTR 116 | Spreadsheet Applications | 2 |
| BUAD 334 | Principles of Management | 3 | Two courses in any department having an oral communication component. MATH 319, 415, and 485 have this component. | | |
| BUAD 354 | Principles of Risk Management | 3 | | | |
| BUAD 425 | Fundamentals of Investments | 3 | | | |
| ECON 213 | Survey of Economics | 3 | | | |
| | OR | 3 | | | |
| ECON 224 | Macroeconomics | 3 | | | |
| MATH 181 | Calculus I | 3 | | | |
| MATH 182 | Calculus II | 4 | | | |
| MATH 200 | Elementary Linear Algebra | 2 | | | |
| MATH 215 | Statistics | 3 | | | |
| MATH 218 | Calculus III | 4 | | | |
| MATH 325 | Probability Theory | 3 | | | |
| MATH 326 | Mathematical Statistics | 3 | | | |
| MATH 485 | Mathematics Seminar (W) | 1 | | | |

Major—B.S. Mathematics (40 Hours)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|---------------------------|--------------|---|------------------------|--------------|
| MATH 181 | Calculus I | 3 | CPTR 131 | Fundamentals of Prog I | 3 |
| MATH 182 | Calculus II | 4 | PHYS 211-212 | General Physics | 6 |
| MATH 218 | Calculus III | 4 | PHYS 213-214 | General Physics Lab | 2 |
| MATH 216 | Set Theory and Logic | 2 | Two courses in any department having an oral communication component. MATH 319, 415, and 485 have this component. | | |
| MATH 317 | Complex Variables | 3 | | | |
| MATH 318 | Algebraic Structures | 3 | | | |
| MATH 200 | Elementary Linear Algebra | 2 | | | |
| | OR | | | | |
| MATH 319 | Linear Algebra | 3 | | | |
| MATH 411 | Intermediate Analysis I | 3 | | | |
| MATH 412 | Intermediate Analysis II | 3 | | | |
| MATH 485 | Mathematics Seminar (W) | 1 | | | |
| | Math Electives | 11-12 | | | |

Secondary certification in Mathematics requires a baccalaureate degree and completion of professional education courses (page 118) for licensure. Students preparing for secondary teacher certification must include MATH 215, 415 in the major. See further explanations in the Education and Psychology section, beginning on page 107.

Sample Freshman Year Sequence B.A. or B.S. Mathematics

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|------------------------|--------------|---------------------|-----------------------|--------------|
| CPTR 131 | Fundamentals of Prog I | 3 | MATH 182 | Calculus II | 4 |
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| MATH 181 | Calculus I | 3 | | Area B, Religion | 3 |
| | Area F-2, Family Sci | | | Area F-1, Behav Sci | 3 |
| | OR | 2 | | Area D-1/Beg For Lang | 3 |
| | AREA F-3, Health Sci | | | | 16 |
| | Area G-3, Recreation | 1 | | | |
| | Area D-1/Beg For Lang | 3 | | | |
| | | 15 | | | |

See pages 22-23 and 25-29 for general degree and general education requirements. Note especially requirements of make-up of admissions deficiencies, three writing emphasis courses, and 40 upper division credits.

Minor—Mathematics (18 Hours)

| <u>Required Courses</u> | | <u>Hours</u> |
|-------------------------|-----------------------------|--------------|
| MATH 181 | Calculus I | 3 |
| | Upper Division Math Courses | 6 |
| | Math Electives (UD or LD) | 9 |

MATHEMATICS

MATH 080. Elementary Algebra (A-2) 3 hours (Non-Credit)

This remedial course covers the content of first-year high school algebra. It is required of all students who meet NONE of the following criteria: 1) ACT math standard score of 16 or above; 2) ACT math elementary algebra subscore of 8 or above; 3) high school Algebra II with a grade of C or better. Tuition for three semester hours will be charged for this course. (Spring)

MATH 090. Intermediate Algebra (A-2) 3 hours (Non-Credit)

Prerequisite: MATH 080 or exemption.

Number systems and their properties, exponents, and radicals, equations and inequalities, polynomial functions and their graphs, systems of equations, logarithms. Tuition for three semester hours will be charged for this course. (Fall)

MATH 103. Survey of Mathematics (A-2) 3 hours

Prerequisite: MATH 080 or exemption.

Basic concepts from the following topics: sets, mathematical logic, numeration systems, number theory, probability, statistics, algebra, geometry, metric system, consumer mathematics. This course does not apply on a major or minor in mathematics. (Fall, Spring, Summer)

MATH 120. Precalculus Algebra (A-2) 3 hours

Prerequisite: Two years of high school algebra or MATH 090.

The real and complex number systems; algebraic equations and inequalities; functions and their graphs including polynomial, rational, exponential, and logarithmic functions; conic sections. This course does not apply on a major or minor in mathematics. (Fall, Spring, Summer)

MATH 121. Precalculus Trigonometry (A-2) 2 hours

Pre- or corequisite: MATH 120 or equivalent.

The trigonometric and inverse trigonometric functions and their graphs, trigonometric equations and identities, trigonometric form of complex numbers, vectors, and other applications. This course does not apply on a major or minor in mathematics. (Fall, Spring)

MATH 181. Calculus I 3 hours

Prerequisite: MATH 120 or a high school precalculus course.

Differential and integral calculus of the elementary functions (non-trigonometric) including limits, continuity, the derivative, computation of derivatives, applications of the derivative, the definite integral, the fundamental theorem of calculus, computation of antiderivatives, applications of the definite integral. (Fall, Spring)

MATH 182. Calculus II 4 hours

Prerequisites: MATH 121 or equivalent and MATH 181.

Precise definitions of limits, calculus of the trigonometric functions, further topics in differential and integral calculus, polar coordinates, analytic geometry, parametric equations, sequences, infinite series, Taylor series, vectors. (Spring)

MATH 200. Elementary Linear Algebra 2 hours

Prerequisite: MATH 181.

Systems of linear equations, matrices and determinants, vector spaces, linear transformations, eigenvalues and eigenvectors, applications. (Spring)

- MATH 215. Statistics (A-2) 3 hours**
Prerequisite: An ACT mathematics standard score of 22 or above, or two years of high school algebra, or MATH 090, or MATH 103.
 An introduction to descriptive and inferential statistics including organization and analysis of data, elementary probability, probability distributions (binomial, normal, Student's t, chi-square, F), estimation, hypothesis testing, correlation and regression, nonparametric statistics. (Fall, Spring)
- MATH 216. Set Theory and Logic 2 hours**
Prerequisite: MATH 181.
 An introduction to some of the basic ideas, terminology, and notation of logic and sets. The concept of a mathematical proof will be emphasized. (Spring)
- MATH 218. Calculus III 4 hours**
Prerequisite: MATH 182.
 Partial derivatives, multiple integrals, vector calculus including Green's theorem, Stokes's theorem, and the divergence theorem. (Fall)
- MATH 280. Applied Mathematics for Computer Science 3 hours**
Prerequisite: MATH 120.
 An examination of many of the mathematical concepts of particular use to computer scientists. The topics include set theory, relations, graph theory, combinatorics, Boolean algebra, digital logic and circuit design, proof techniques, and finite state automata. (Fall)
- MATH 315. Differential Equations 3 hours**
Prerequisite: MATH 182.
 Classification and solution of common types of ordinary differential equations, power series solutions, systems of linear differential equations, the Laplace transform, applications to problems in the physical sciences. (Spring)
- MATH 316. Partial Differential Equations 3 hours**
Prerequisite: MATH 315.
 Partial differential equations, Fourier series, boundary value problems, Bessel functions, Legendre polynomials. (Fall, even years)
- MATH 317. Complex Variables 3 hours**
Prerequisites: MATH 216, 218.
 An introduction to the theory of analytic functions of a complex variable, including mappings by elementary functions, complex integration, the Cauchy Goursat theorem, Cauchy's integral formula, power series, Laurent series, the theory of residues, and conformal mapping. (Spring, odd years)
- MATH 318. Algebraic Structures 3 hours**
Prerequisites: MATH 216, 218.
 The structure of groups, rings, integral domains, and fields. (Fall, even years)
- MATH 319. Linear Algebra 3 hours**
Prerequisites: MATH 181, 216.
 Finite dimensional vector spaces and the attendant concepts of systems of linear equations, linear transformations, matrices, determinants, eigenvalues and eigenvectors. (Spring, odd years)
- MATH 325. Probability Theory 3 hours**
Prerequisite: MATH 182.
 Basic probability theory, combinatorial problems, independence and dependence, numerical-valued random phenomena, mean and variance of a probability law, normal, Poisson, and related probability laws.

MATH 326. Mathematical Statistics 3 hours**Prerequisite:** MATH 218.

Random variables, conditional probability, standard distributions of random variables, distributions of functions of random variables, interval estimation, point estimation.

MATH 411-412. Intermediate Analysis 3,3 hours**Prerequisites:** MATH 216, 218.

The real number system, sequences, limits and metric spaces, continuity, uniform continuity, introduction to point set topology, properties of the derivative and integral, convergence and uniform convergence of sequences and series of functions, orderings. (Fall, odd years; Spring, even years)

MATH 415. Geometry 3 hours**Prerequisites:** MATH 181, 216.

Topics selected from the following: foundations of Euclidean geometry, finite geometries, advanced Euclidean geometry, non-Euclidean geometry, geometric transformations, the geometry of inversion, projective geometry. (Fall, odd years)

MATH 465. Nursing Statistics 3 hours**Prerequisites:** MATH 090, or 103, or equivalent and permission from the Department of Nursing and the Department of Mathematics.

Descriptive and inferential statistics with an emphasis on techniques and tests which are most often used in nursing research. Topics are selected from the following: organization and analysis of data, probability, various parametric and nonparametric probability distributions, estimation, hypothesis testing, correlation and regression. This course is designed for community registered nurses who are working on advanced degrees, and is offered periodically at the request of the Department of Nursing.

MATH 475. Mathematics in the Sciences 1 hour**Prerequisites:** All mathematics and science courses required for the B.A. degree in Social and Natural Science Studies.

A study of the relationship between mathematics and the sciences, the influences each has had and continue to have upon the other, and applications of precalculus mathematics to the life, physical, and social sciences. This course does not apply on a major or minor in mathematics. (Spring, odd years)

MATH 485. Mathematics Seminar (W) 1 hour**Prerequisite:** Permission of Mathematics staff.

Written and oral reports are made on a variety of topics in mathematics including topics in current mathematical literature. Mathematics majors obtaining secondary certification must choose topics in the history and philosophy of mathematics. (Fall, odd years)

MATH 295/495. Directed Study 1-3 hours**Prerequisite:** Approval by department faculty.

Individual reading and problem solving in a field chosen in consultation with an instructor. This course may be repeated for credit. (On demand)

EDUCATION**EDUC 438. Curriculum and Content Methods/Mathematics 1 hour****Prerequisite:** Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, and the survey and evaluation of textbooks. (Fall)

(A-2) (W) See pages 22-23 and 25-29 for general degree and general education requirements.

MODERN LANGUAGES

Chair: Helmut Ott

Faculty: Mari-Carmen Gallego

This department combines language study with overseas experiences and other academic courses to administer an inter-disciplinary degree in International Studies that will enhance students' ability to live and work in an international setting. Students discover French, German, and Spanish not only as living languages but also as reflections of the cultures and the peoples they represent. The aim is to provide an aesthetic and historical background and a practical linguistic skill in the event the student becomes an overseas traveler or worker.

The ability to communicate with people is increasingly essential in today's shrinking world, and an acquaintance with a foreign culture should be part of the background of educated persons, particularly those with a sense of world mission. The Department of Modern Languages aspires toward helping Christians fulfill this responsibility to demonstrate good will, whether as travelers and business people or as respondents to the Master's gospel commission.

ASSESSMENT

The assessment of majors in International Studies consists of three basic parts: First the candidates write an evaluation of the departmental program to state their perception of the program's effectiveness in achieving its objectives. Second, the candidates take a departmental exam to demonstrate their degree of success in achieving near native mastery of the target language in the areas of listening, reading, writing, and speaking. Third, the candidates take an oral examination focusing on their knowledge and appreciation of the culture of the peoples who speak the target language. A key element of this interview is the candidates' ability to compare and contrast the target culture with their own, and to show how they relate, contribute to, and enrich each other.

FOREIGN STUDY

Adventist Colleges Abroad. Southern College is a member of the consortium of colleges and universities which, under the auspices of the General Conference of Seventh-day Adventists, supports the Adventist Colleges Abroad program. ACA provides an opportunity for students of French, German, or Spanish to achieve proficiency in the foreign language amid the added advantages of an authentic cultural setting.

The language schools operated by the following institutions are affiliates of ACA: in Austria, Seminar Schloss Bogenhofen, Braunau; in France, Institut Adventiste du Salève, Collonges-sous-Salève; in Spain, Colegio Adventista de Sagunto, Sagunto; and in Argentina, Universidad Adventista del Plata.

BACHELOR OF ARTS DEGREE IN International Studies

Major—B.A. in International Studies with emphasis in French, German, or Spanish (36 Hours)

| | |
|--|-----------------|
| 1. Language Component | 24 hours |
| • The intermediate level of the target language taken prior to the ACA experience. | 6 hours |
| • Language courses at the ACA campus including at least 3 semester hours in Culture and Civilization | 18 hours |
| 2. Humanities Component | 12 hours |
| ART 345 Contemporary Art | 3 |
| ENGL 445 World Literature | 3 |
| HIST 389 Vienna to Vietnam | 3 |
| RELT 368 Comparative Religions | 3 |
| TOTAL | 36 hours |

Major—B.A. International Studies, French Emphasis (36 Hours)

| Required Courses | Quarter Hours | Required Courses, cont. | Quarter Hours |
|-----------------------------------|---------------|--------------------------------|---------------|
| FREN 207 Intermediate French | 3 (sem) | FREN 321 Adv Composition I | 3 |
| FREN 208 Intermediate French | 3 (sem) | FREN 351 Adv Oral Expression I | 3 |
| FREN 211 Phonetics | 2 | FREN 381 Survey of French Lit | 2 |
| FREN 221 Intermediate Composition | 3 | FREN 471 French Civilization | |
| FREN 231 Intermediate Orthography | 3 | OR | 3 |
| FREN 251 Intermediate Oral Exp | 3 | FREN 472 French Civilization | |
| FREN 301 Advanced French | 6 | | |

Sample Freshman Year Sequence B.A. International Studies, French

| 1st Semester | Hours | 2nd Semester | Hours |
|------------------------------|-------|---------------------------------------|-------|
| FREN 101 Elementary French | 3 | FREN 102 Elementary French | 3 |
| HIST 175 World Civilization | | ENGL 102 College Composition | 3 |
| OR | 3 | HMNT 205 Arts and Ideas | |
| Another C-1 Course | | OR | 3 |
| ENGL 101 College Composition | 3 | Another D-3 Course | |
| MATH 103 Survey of Math | | PEAC PE Activity | 1 |
| OR | 3 | PSYC 128 Developmental Psych | |
| Area A-2, Mathematics | | OR | 3 |
| RELT 125 Teachings of Jesus | | Another F-1 Course | |
| OR | 3 | SPCH 135 Intro to Public Speaking | |
| Another B-1 Course | | OR | 3 |
| | 15 | SPCH 136 Interpersonal Communications | |
| | | | 16 |

Major—B.A. International Studies, German Emphasis (36 Hours)

| Required Courses | Semester Hours | Required Courses, cont. | Sem. Hours |
|------------------------------|----------------|------------------------------|------------|
| GRMN 201 Grammar I | 4 | GRMN 231 Rding/Pronunciation | 1 |
| GRMN 207 Intermediate German | 3 | GRMN 301 Grammar II | 4 |
| GRMN 208 Intermediate German | 3 | GRMN 311 Comp/Dictation II | 2 |
| GRMN 211 Comp/Dictation I | 2 | GRMN 321 Conversation II | 1 |
| GRMN 221 Conversation I | 1 | GRMN 354 Survey of Grmn Lit | 3 |

Sample Freshman Year Sequence
B.A. International Studies, German
 Same as French
 (See Above)

Major—B.A. International Studies, Spanish Emphasis (36 Hours)

| <u>Required Courses</u> | | <u>Quarter Hours</u> | <u>Required Courses, cont.</u> | | <u>Quarter Hours</u> |
|-------------------------|-------------------------|----------------------|--------------------------------|----------------------------|----------------------|
| SPAN 201 | Spanish Folklore | 2 | SPAN 331 | Hist of Span Lit | |
| SPAN 207 | Intermediate Spanish | 3 (sem) | | OR | 3 |
| SPAN 208 | Intermediate Spanish | 3 (sem) | SPAN 332 | Hist of Spanish Lit | |
| SPAN 251 | Inter Spanish Grammar | 4 | SPAN 352 | Adv Spanish Grammar I | |
| SPAN 261 | Inter Spanish Comp | 2 | | OR | 4 |
| SPAN 271 | Inter Span Conversation | 2 | SPAN 353 | Adv Spanish Grammar I | |
| SPAN 272 | Inter Span Conversation | 2 | SPAN 362 | Adv Span Comp I | |
| SPAN 312 | Spain & Its Culture | | | OR | 2 |
| | OR | 2 | SPAN 363 | Adv Spanish Comp I | |
| SPAN 313 | Spain & Its Culture | | SPAN 372 | Adv Spanish Conversation I | 2 |
| | | | SPAN 373 | Adv Spanish Conversation I | 2 |

Sample Freshman Year Sequence
B.A. International Studies, Spanish
 Same as French
 (See Above)

Minor—French, German or Spanish (18 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|------------------------------------|--------------|
| XXXX 207-208 Intermediate Language | 6 |
| Upper Division Language Courses | 6 |
| Elective Language Courses | 6 |

The beginning language courses, 101-102, are excluded from the minor. *Students desiring a language minor must earn credits beyond the intermediate level either at ACA or in other language programs previously approved by this department.*

DESCRIPTION OF COURSES

I. Courses Offered at the SC Campus

FRENCH

FREN 101-102. Elementary French (D-1) 3,3 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. Ordinarily no credit will be allowed to students in elementary modern language if they have passed two years of language at the high school level. Students who have not taken language during the previous four years may enroll in FREN 101-102 by permission of the department. (FREN 101 is offered Fall; 102, Spring)

FREN 207-208. Intermediate French (D-1) 3,3 hours

Prerequisite: FREN 101-102, or two years of French in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (FREN 207 is offered Fall; 208, Spring)

GERMAN

GRMN 101-102. Elementary German (D-1) 3,3 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. Ordinarily no credit will be allowed to students in elementary modern language if they have passed two years of language at the high school level. Students who have not taken language during the previous four years may enroll in GRMN 101-102 by permission of the department. (GRMN is offered Fall; 102, Spring)

GRMN 207-208. Intermediate German (D-1) 3,3 hours

Prerequisite: GRMN 101-102, or two years of German in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult material; oral and written exercises. Laboratory work is required. (GRMN 207 is offered Fall; 208, Spring.)

SPANISH

SPAN 101-102. Elementary Spanish (D-1) 3,3 hours

A foundation course in the basic skills. May be waived by examination. Laboratory work is required. Ordinarily no credit will be allowed to students in elementary modern language if they have passed two years of language at the high school level. Students who have not taken language during the previous four years may enroll in SPAN 101-102 by permission of the department. (SPAN 101 is offered Fall; 102, Spring)

SPAN 207-208. Intermediate Spanish (D-1) 3,3 hours

Prerequisite: SPAN 101-102, or two years of Spanish in secondary school, or a satisfactory score on a standardized examination, or approval of the department. Advanced grammar; intensive and extensive reading of moderately difficult Spanish texts; oral and written exercises. Laboratory work is required. (SPAN 207 is offered Fall; 208, Spring)

II. Courses offered at the ACA language schools

For a complete listing of courses available for credit at the ACA campuses, see the 1996-97 ACA catalog in Southern College's Modern Languages Department.

(D-1) See pages 25-29 for general education requirements.

MUSIC

Chair: Marvin L. Robertson

Faculty: J. Bruce Ashton, Julie Boyd-Penner, Orlo Gilbert, Judith Glass, James Hanson, Patricia Silver

Adjunct Faculty: Greg Bean, Daniel Bowles, Elaine Janzen, Nora Kile, Bruce Kuist, Lynda Magee-Johnson, Jan Parisi, Mark Reneau, Sharon Shuttlesworth-Reed, Gordon Stangeland

The faculty of the Department of Music believes that music is one of the arts given to man by his Creator to be used in the worship of God and to enhance the quality of man's life. In harmony with this philosophy, course work is offered which meets the needs of the general college student as well as music majors and minors.

The Department of Music offers two baccalaureate degrees, the Bachelor of Music degree in music education and the Bachelor of Arts degree in music. Both degrees require courses in music theory and history, as well as a high level of achievement in a major performance area. In addition, the Bachelor of Music degree emphasizes the skills necessary for teaching music, with special emphasis on the training of teachers for the Seventh-day Adventist school system.

ADMISSION REQUIREMENTS

Music majors must fulfill all the general admission requirements of the college. In addition, a prospective music major is required to take written and aural entrance examinations in music theory and a performance examination in the applied concentration. To obtain freshman standing as a music major the student must qualify for MUCT 111 and MUPF 189.

Further information regarding the entrance examinations may be obtained by writing the chair of the Department of Music.

GENERAL REQUIREMENTS

Functional Piano: All music majors must pass a functional piano examination or pass four hours of piano secondary. (The latter may not be used as part of the applied music requirement in the Vocal/General Endorsement for teacher certification.) The functional piano examination includes the playing of hymns, scales, triads, arpeggios, several moderately easy compositions and accompaniments, and the harmonization of simple folk melodies. The functional piano examination should be passed during the first week of the first semester in residence or the student must register for applied piano instruction.

Applied Music Credit: One semester hour of credit will be given for fourteen half-hour lessons with a minimum of four hours of practice per lesson. Applied music concentration grades are assigned following a jury examination at the end of each semester. (See Music Lesson Fees under Financial Policies section of this CATALOG.)

Concert and Recital Attendance: Full-time music majors (students taking 12 or more credits) are required to attend, as a non-performer, six Department approved concerts per semester, except for the student teaching semester. Attendance shall include faculty and senior recitals in

the student's applied concentration area. Failure to meet this requirement will nullify music major status.

Music Ensemble Participation: All music majors are required to participate in a music ensemble every semester in full-time residence (12 or more hours). During the student teaching semester, students are exempted from this requirement. Teacher certification candidates must, however, complete eight hours of appropriate ensembles. Appropriate ensembles are defined as follows: string majors, Symphony Orchestra; wind and percussion majors, Concert Band; voice majors, Southern Singers; keyboard majors, any of the above. Students are encouraged to participate in a variety of other ensembles as time permits.

ASSESSMENT

The Department of Music has an ongoing program of student assessment. This program includes the following:

1. JURY EXAMINATIONS

Progress in the area of a music major's applied music concentration is monitored through the jury performance examination required of each major at the end of each semester.

2. JUNIOR STANDING

Music majors must apply for junior standing at the end of the sophomore year. These requirements are as follows:

- a. An overall grade point average of 2.00 for the Bachelor of Arts degree and 2.50 for the bachelor of Music degree.
- b. A grade point average of 2.50 in all music courses.
- c. completion of the functional piano requirement.
- d. Completion of MUCT 111-112, 121-122.
- e. Completion of at least four hours of credit in the student's applied music concentration area.

Faculty evaluation of the application for junior standing will result in the student's receiving one of the following classifications: (a) Pass, Bachelor of Music; (b) Pass, Bachelor of Arts; (c) Probation; (d) Fail. Junior Standing requirements must be met at least two semesters before graduation.

3. SENIOR RECITAL

All music degree candidates will present a senior recital. The student must be registered for private instruction while preparing for the senior recital. A faculty audition of the complete program must be scheduled at least three weeks before the recital date. Unsatisfactory performance at this audition will result in a rescheduling of the recital date.

Following the senior recital, the music faculty will vote to either accept the performance or to require all or portions of the recital to be repeated. The student will not be cleared for graduation until successful completion of the senior recital but, upon music faculty approval, the senior recital requirement may be partially fulfilled through a conducting or chamber music performance.

4. SENIOR ASSESSMENT EXAMINATION

During the senior year each graduating senior will take the nationally standardized Major Field Achievement Test. The results of this examination will be used to help determine the effectiveness of the music program and the competency level of the graduates.

BACHELOR OF MUSIC CURRICULUM

The Bachelor of Music degree in music education meets state and denominational certification requirements. Students must apply for admission to the Teacher Education Program through the Department of Education and Psychology prior to taking education courses. Each student

will be responsible to determine the additional courses that may be required for certification in the state of his/her choice. This information can be obtained at the Department of Education and Psychology.

State certification and graduation requirements for Music Education majors include passing the NTE Specialty Test in Music Education at the 480 level.

The following general education requirements apply only to students pursuing a Bachelor of Music degree:

| | |
|--|-----------------|
| A. Basic Academic Skills | 9 hours |
| 1. English | 6 hours |
| 2. Mathematics | 3 hours |
| B. Religion | 12 hours |
| 1. Biblical Studies (RELB) | 6 hours |
| 2. Religion: RELT 138, 255 | 6 hours |
| C. History | 6 hours |
| D. Language, Literature, Fine Arts | 6 hours |
| 1. Literature | 3 hours |
| 2. Speech | 3 hours |
| E. Natural Sciences | 8 hours |
| 1. Biology | 0-3 hours |
| 2. Chemistry | 0-3 hours |
| 3. Physics | 0-3 hours |
| F. Behavioral, Family, Health Sciences | 2 hours |
| 1. Health Science: HLED 173 | 2 hours |
| G. Activity Skills | 2 hours |
| 1. Recreational Skills (PEAC 225 required) | 2 hours |
| TOTAL | 45 hours |

Music Core (33 Hours)

| Required Courses | Hours | Required Courses, cont. | Hours |
|---------------------------------------|-------|--|-------|
| MUCT 111-112 Music Theory I, II | 6 | MUHL 320-323 Music history courses (W) | 8 |
| MUCT 121-122 Aural Theory I, II | 2 | MUPF 477 Instr Conducting Techniques | 3 |
| MUCT 211-212 Adv Music Theory III, IV | 6 | MUPF 478 Choral Conducting Techniques | 3 |
| MUCT 221-222 Adv Aural Theory III, IV | 2 | MUCT 313 Orchestration and Arranging | 3 |

Keyboard proficiency must be demonstrated by passing a piano proficiency examination. Four (4) hours of keyboard secondary may be used in lieu of the proficiency examination. The four hours of keyboard may not be used as part of the applied music requirement in the Vocal/General Endorsement.

Vocal/General Endorsement (31 Hours)

- A. Applied Music Concentration Voice**
Applied Concentration 14 hours
Appropriate Ensemble(s) 8 hours
Vocal and General Methods including:
 MUED 231 Music & Movement 2 hours
 MUED 317 Voice Pedagogy 2 hours
 MUED Elective 2 hours
 MUED 439 Student Teaching Seminar 1 hours
 MUPF 227, 228 Singers Diction 2 hours
- B. Applied Music Concentration Keyboard**
Applied Concentration (Piano or Organ) 14 hours
Applied Concentration (Voice) 4 hours
Appropriate Ensemble(s) 8 hours
Vocal and General Methods including:
 MUED 231 Music and Movement 2 hours
 MUED 317 Voice Pedagogy 2 hours
 MUED 316 Piano Pedagogy (Piano Concentration)
 OR
 MUED 318 Organ Pedagogy (Organ Concentration) 2 hours
 MUED 439 Student Teaching Seminar 1 hours
 Service Playing (Organ Majors Only) 2 hours

Instrumental Endorsement (35 Hours)

- Applied Music Concentration
 (one instrument: wind, string, or percussion) 14 hours
Appropriate Ensemble(s) 8 hours
Secondary Instrument Instruction
 (must include at least two areas, excluding keyboard) 6 hours
Instrumental Music Methods and Materials 6 hours
MUED 439. Pre-Student Teaching Seminar 1 hours

Vocal/General and Instrumental Endorsement

An applicant for endorsements in both areas above may complete a minimum of ten semester hours in methods and materials, provided both are represented.

Education Core (26 Hours)

Before taking education courses, the student must apply to the Education and Psychology Department for admission to the Teacher Education Program. Before the end of the junior year, the student must apply to the Education and Psychology Department for admission to the professional semester.

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Courses, cont.</u> | | <u>Hours</u> |
|-------------------------|--------------------------------|--------------|--------------------------------|--------------------------------|--------------|
| EDUC 135 | Introduction to Education | 2 | EDUC 356 | Classroom Assessment | 2 |
| EDUC 217 | Psych Foundations of Education | 2 | EDUC 422 | Behavior Mgmnt for Adolescents | 2 |
| EDUC 240 | Ed for Excep Child and Youth | 2 | EDUC 434 | Reading in Content - Secondary | 2 |
| EDUC 250 | Technology in Education | 2 | EDUC 489 | Enhanced Stu Teaching K-12 | 10 |
| EDUC 325 | Philosophy of Christian Ed | 2 | | | |

Sample Freshman Year Sequence
B.Mus. Music Education

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|-----------------------|-------|--------------|------------------------|-------|
| EDUC 135 | Intro to Education | 2 | ENGL 102 | College Composition | 3 |
| ENGL 101 | College Composition | 3 | MUCT 112 | Music Theory II | 3 |
| HIST | Area C-1, Elective | 3 | MUCT 122 | Aural Theory II | 1 |
| MUCT 111 | Music Theory I | 3 | MUPF 189 | Applied Concentration | 2 |
| MUCT 121 | Aural Theory I | 1 | | Music Ensemble | 1 |
| MUPF 189 | Applied Concentration | 2 | RELT 255 | Christian Beliefs | 3 |
| | Music Ensemble | 1 | | Area C-2, Pol Sci/Econ | 3 |
| | | 16 | | | 16 |

BACHELOR OF ARTS DEGREE IN MUSIC

The Bachelor of Arts in music is a non-professional degree designed to give the student a broad understanding of the musical heritage of man.

Major—B.A. Music (40 Hours)

| Required Courses | | Hours | Required Courses, cont. | | Hours |
|------------------|-----------------------------|-------|-------------------------|--------------------------------|-------|
| MUCT 111-112 | Music Theory I, II | 6 | MUHL 321 | Frotola/Fugue, 1450-1700 (W) | 2 |
| MUCT 121-122 | Aural Theory I, II | 2 | MUHL 322 | Suite/Sym Poem, 1700-1900 (W) | 2 |
| MUCT 211-212 | Music Theory III, IV | 6 | MUHL 323 | Diverse Musical Systems (W) | 2 |
| MUCT 221-222 | Aural Theory III, IV | 2 | MUPF 189 | Concentration | 4 |
| MUCT 313 | Orchestration & Arranging | | MUPF 389 | Concentration | 4 |
| | OR | 3 | | UD Music Electives | 14 |
| MUCT 413 | Analysis of Music Form | | | Music Ensembles (See page 186) | |
| MUHL 320 | Chant/Chanson, 600-1450 (W) | 2 | | | |

A student must complete all general education requirements of the college. The foreign language recommended is either French or German.

Sample Freshman Year Sequence
B.A. Music

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|------------------------|-------|--------------|------------------------|-------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| MUCT 111 | Music Theory I | 3 | MUCT 112 | Music Theory II | 3 |
| MUCT 121 | Aural Theory I | 1 | MUCT 122 | Aural Theory II | 1 |
| MUPF 189 | Applied Concentration— | | MUPF 189 | Applied Concentration— | |
| | Instrument/Voice | 1 | | Instrument/Voice | 1 |
| | Music Ensemble | 1 | | Music Ensemble | 1 |
| | Area G-3, Recreation | 1 | | Area A-2, Mathematics | 0-3 |
| | Area B, Religion | 3 | | Minor or Elective | 6-3 |
| | Minor or Elective | 2 | | | 15 |
| | | 15 | | | |

Minor—Music (18 Hours)

| Required Courses | | Hours |
|------------------|------------------------------|-------|
| MUCT 111-112 | Music Theory I and II | 6 |
| MUHL 115 | Listening to Music | 3 |
| MUPF 189 | Concentration | 2 |
| MUPF 477 | Instrumental | |
| | OR | 3 |
| MUPF 478 | Choral Conducting Techniques | |
| | Upper Division Electives | 3 |
| | Music Elective | 1 |

CHURCH MUSIC

MUCH 215. Music in the Christian Church (D-3) 2 hours
An historical and philosophical survey of music in the Christian Church with particular emphasis on hymnology. (Spring)

MUCH 315. Church Music Materials and Administration 3 hours
The study of worship philosophies, denominational political hierarchies, liturgies, ensemble organization, appropriate music literature for performance and administrative procedures. Students are required to prepare service music for services of various denominations.

MUSIC THEORY

MUCT 100. Introduction to Music Theory 2 hours
A study of the rudiments and basic vocabulary of music theory. Does not apply toward a music major or minor. This is a computer assisted course. (Spring, Summer)

MUCT 111-112. Music Theory I and II 3,3 hours
Prerequisite: MUCT 100 or examination.
A study of the elements which render music of all periods aurally and visually comprehensible, within simple forms and a variety of textures from one to four voices. Music Theory I may not be repeated more than once. (Fall, Spring)

MUCT 121-122. Aural Theory I and II 1,1 hours
A laboratory for the development of keyboard and sight-singing skills related to the materials introduced in MUCT 111-112. Music majors must take this concurrently with MUCT 111-112. This is a computer assisted course. (Fall, Spring)

MUCT 211-212. Music Theory III and IV 3,3 hours
Prerequisites: MUCT 111-112.
An expanded and intensified study of the structure of music as begun in MUCT 111-112. In MUCT 212, contemporary music is emphasized. (Fall, Spring)

MUCT 221-222. Aural Theory III and IV 1,1 hours
Keyboard and sight-singing applications of materials studied in MUCT 211-212. Music majors must take this concurrently with MUCT 211-212. This is a computer assisted course. (Fall, Spring)

MUCT 313. Orchestration and Arranging 3 hours
Prerequisites: MUCT 111-112.
The ranges, capabilities and limitations, and transpositions of orchestra and band instruments. Idiomatic scoring of short works for vocal and instrumental chamber groups, small orchestra, and band. Performance of exercises and analysis of scores is emphasized. (Spring, even numbered years)

MUCT 413. Analysis of Music Form 3 hours
Prerequisites: MUCT 211-212 or permission of instructor.
An analytical study of musical structure from the smallest units of form to the more complex music of all historical periods. (Fall, odd numbered years)

MUCT 295/495. Directed Study 1-3 hours
Individual study open to music majors and other qualified students. Content to be arranged. Approval must be secured from the department chair prior to registration. May be repeated up to a total of three hours. (Fall, Spring, Summer)

MUSIC EDUCATION

MUED 136. String Materials and Methods 2 hours

A study of the stringed instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Spring, even numbered years)

MUED 146. Brass Materials and Methods 2 hours

A study of tone production, performance techniques, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Fall, even numbered years)

MUED 156. Woodwind Materials and Methods 2 hours

A study of tone production, embouchure, fingerings, practical pedagogic technique, and simple repairs. A survey of the literature for the instruments and evaluation of teaching methods. Observation of classroom and private instruction is required. (Spring, odd numbered years)

MUED 166. Percussion Materials and Methods 2 hours

A study of percussion instruments, including methods and materials for class and private instruction. Observation of classroom and private instruction is required. (Fall, odd numbered years)

MUED 231. Music and Movement: A Sequential Approach 2 hours

Prerequisite: MUCT 100 or MUHL 115 or Approval of Instructor.

A survey of the structure of music including music fundamentals, movement to music, performance skills, listening skills, and the integration of music into life activities.

MUED 316. Piano Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent.

Methods, materials, and procedures for private and class piano instruction; planning a complete program for pupils on various grade levels including technic, repertoire, and musicianship. Observation and teaching are required. (Fall, odd numbered years)

MUED 317. Voice Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent and permission of instructor.

Methods, materials, and procedures for private and class voice instruction; testing and classification of voices; physiological and psychological problems of voice production and diction. Observation and teaching are required. (Spring, odd numbered years)

MUED 318. Organ Pedagogy 2 hours

Prerequisite: Two hours of MUPF 189 or equivalent.

Methods, materials, and procedures for instruction in organ; accompaniment of church services; registration of organ literature on various types of organs. Observation and teaching are required. (Fall, even numbered years)

MUED 439. Pre-Student Teaching Seminar 1 hour

Prerequisite: Admission to Teacher Education.

A seminar in which the student is oriented to student teaching, including curriculum, lesson planning, professional relationships, and other matters related to student teaching. (Spring)

MUSIC HISTORY

MUHL 115. Listening to Music (D-3) 3 hours

A course designed to acquaint the student with the major composers, musical styles, and forms of Western music. Two listening periods per week are required. Does not apply toward a music major. (Fall, Spring)

MUHL 320. Chant to Chanson, 600 to 1450 (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The development of musical style, beginning with plainsong and its notation, and continuing with the growth of polyphony and the appearance of secular forms. Special emphasis will be given to the evaluation of modern editions of music, particularly of the Ars Nova, and to investigation of problems in performance practice. (Fall, odd years)

MUHL 321. Frottola to Fugue, 1450-1700 (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

National styles of composition throughout the Renaissance and the emergence of new ideas, particularly the monodic revolution and its resulting new form, opera. The development of the theory of common practice and the major changes in notational methods, as well as a survey of evolution of musical instruments during this period. (Spring, even years)

MUHL 322. Suite to Symphonic Poem, 1700-1900 (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

The centrality of sonata form as the basis of chamber and orchestral literature; the appearance of significant small forms (as the lied and the piano piece); the analysis of representative works from all major schools. (Fall, even years)

MUHL 323. Diverse Musical Systems, 1900-present (D-3) (W) 2 hours

Prerequisite: MUHL 115, MUCT 111-112, or permission of instructor.

A study of systems replacing tonality, including aleatoric and dodecaphonic to minimalist; broadening of musical bases, such as the influence of folk music and non-Western theories. Projects suitable for this semester might include studies of women in music, American music, or minorities. (Spring, odd years)

MUHL 465. Topics in Music 1-3 hours

Selected topics in music presented in a classroom setting. Subjects covered will determine how the class applies to the major. This course may be repeated for credit.

APPLIED MUSIC

MUPF 108. Group Instruction (G-1) 1-2 hours

Beginning voice and beginning piano only. A minimum of four hours of practice and/or listening outside of class is required. (Fall, Spring)

MUPF 129. Secondary (G-1) 1-2 hours

Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)

- MUPF 189. Concentration (G-1)** 1-2 hours
Prerequisite: Performance examination for freshman standing.
 Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)
- MUPF 227. Singers Diction (G-1)** 1 hour
 A study of the pronunciation of English and Italian. (Fall, odd numbered years)
- MUPF 228. Singers Diction (G-1)** 1 hour
 A study of the pronunciation of German and French. (Spring, even numbered years).
- MUPF 279. Service Playing (G-1)** 1 hour
Prerequisite: Two hours MUPF 189 (organ) or permission of instructor.
 The development of skills requisite to playing both liturgical and non-liturgical services, including hymn playing, choral and solo accompanying, conducting from the console, improvisation and modulation, and selection of appropriate preludes, offertories, and postludes. Performance experience required. (Fall, Spring)
- MUPF 329. Secondary (G-1)** 1-2 hours
 Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. (Fall, Spring, Summer)
- MUPF 389. Concentration (G-1)** 1-2 hours
Prerequisite: Four hours MUPF 189.
 Private instruction in voice, piano, organ, or orchestral instrument. One-half hour lesson and a minimum four hours practice per week are required for each hour of credit granted. Private lessons for voice majors and minors include attendance at a weekly voice performance class. (Fall, Spring, Summer)
- MUPF 477. Instrumental Conducting Techniques (G-1)** 3 hours
Prerequisite: MUCT 112 or permission of instructor.
 Basic conducting techniques including beat patterns, cues, and expressive gestures, and instrumental problems. Experience in conducting instrumental ensembles is included. (Fall, odd numbered years)
- MUPF 478. Choral Conducting Techniques (G-1)** 3 hours
Prerequisite: MUCT 112 or permission of instructor.
 Basic conducting techniques including beat patterns, cues, and expressive gestures, and vocal problems. Experience in conducting choral ensembles is included. (Spring, even numbered years)

Courses MUPF 108, 129, and 329 are open to any student of the College as elective credit toward the B.A. or B.S. degree. The music major or minor may not apply these toward his applied music concentration. Students desiring to study organ must pass the Functional Piano Examination.

Courses MUPF 189 and 389 are courses primarily for the music major and minor, but they may be elected by anyone who passes the examination for freshman standing. Jury examinations are required with these course numbers.

The following performance areas may be studied: voice, piano, classical guitar, folk guitar, organ, violin, viola, cello, double bass, flute, oboe, clarinet, saxophone, bassoon, trumpet, French horn, trombone, baritone tuba, and percussion instruments.

CHORAL ENSEMBLES

Choral ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at performances and rehearsals, including dress rehearsals, is required.

Ensembles for which academic credit is granted are organized and sponsored by the members of the music faculty.

MUPF 118/318. Schola Cantorum (G-1) 1 hour

A small mixed-voice choir which specializes in performing sacred music of the Renaissance, Baroque, and Romantic eras.

MUPF 148/348. Something Special (G-1) 1 hour

A small mixed-voice choir which performs both sacred and secular music in many styles. The music is frequently choreographed.

MUPF 158/358. Die Meistersinger Male Chorus (G-1) 1 hour

A male-voice choir which performs music of all styles and style periods.

MUPF 168/368. Southern Singers (G-1) 1 hour

A large mixed-voice choir which performs music of all style periods.

MUPF 188/388. Vocal Ensemble Experience (G-1) 1 hour

A course designed to provide credit for participants in major choral works, musical productions, and other department-sponsored vocal activities. This course does not fulfill the music ensemble requirement for music majors. (Fall, Spring)

INSTRUMENTAL ENSEMBLES

Instrumental ensembles are open to all college students through audition. Each ensemble meets three periods per week and offers one hour credit each semester. Regular attendance at rehearsals is required.

Course numbers MUPF 178 and 378 do not fulfill the music ensemble participation requirement for music majors except those taking a keyboard concentration. Music majors other than those taking a keyboard concentration who wish Instrumental Ensemble Experience credit must be registered concurrently in Concert Band or Symphony Orchestra.

Ensembles for which academic credit is granted are organized and sponsored by members of the music faculty.

MUPF 128, 328. Concert Band (G-1) 1 hour
(Fall, Spring)

MUPF 138, 338. Symphony Orchestra (G-1) 1 hour
(Fall, Spring)

MUPF 178, 378. Instrumental Ensemble Experience (G-1) 1 hour

A course designed to provide credit for chamber ensembles or, in the case of keyboard majors, significant accompanying experience. (Fall, Spring)

(D-3) (G-1) (W) See pages 25-29 for explanation for general education requirements.

NONDEPARTMENTAL COURSES

COOP 265/465. Cooperative Education

1-6 hours

This course allows students to receive credit for work experience. The assignments must be a specific program designed as an internship with an agreed upon description of the type of work, arrangements for supervision, and methods of evaluation. A two-thirds tuition waiver applies to this class, calculated according to the policy on page 235. One hour of credit requires a minimum of 40 work hours. A maximum of six credit hours of cooperative education may be applied to a major.

FDNT 125. Nutrition (F-3)

3 hours

This class is administered by the Nursing Department.

A general education course introducing a student to the basic principles of human nutrition. Includes study of the nutrients and the requirements for different age groups and normal physiological conditions. Attention will be given to religious and sociological influences, taking particular note of the counsel of E. G. White. (Fall, Spring)

HMNT 205. Arts and Ideas (D-3)

3 hours

This class is administered by the History Department.

A cultural appreciation class tracing the historical evolution of intellectual movements in western civilization. Ideas from leaders in philosophy and the arts will be studied with appropriate works from music, art, and literature. Students may participate in activities involving specific art forms. Resource persons may assist as available. This course is also offered by the History Department as part of the European study tour program during selected summer sessions.

HMNT 150/350. International Travel

1 hour

One credit hour is available to participants in college tours outside the United States. The trip must last seven days excluding travel to and from the tour location, and must include a minimum of 20 hours in museums, historical sites, concerts, drama, and sightseeing. Students will submit written summaries/reflections of their experiences. Credit for this course is not granted simultaneously with credit earned in other tour classes. A complete tuition waiver applies to this class, calculated according to the policy on page 235.

HMNT 451, 452. Honors Seminar

1,1 hour

This class is administered by the History Department.

A study of great books in religion, philosophy, science and social science that have shaped western culture. Required of students in the Southern Scholars program during their junior or senior year. Open to other students with permission of department chair. A complete tuition waiver for this class applies to Southern Scholars students only, calculated according to the policy on page 235.

LIBR 325. Library Materials for Children

2 hours

This class is administered by the Education and Psychology Department.

Presents to the student a knowledge of a wide variety of books and related materials for children, grades 1-8. Develops an appreciation for books and reading that can be enthusiastically transmitted to young readers through critical evaluation and selection of books and materials. Correlates the use of books and materials to the specific needs and interests of young readers.

LIBR 425. Library Materials for Young Adults and Adults 2 hours

This class is administered by the English and Speech Department.

Gives emphasis to the variety of books and related materials for grades 9-12. Correlates critical evaluation and selection to the interests, use, and specific needs of the young adult as he develops his reading habits and skills. Develops an appreciation for books and readings that can dynamically involve both young adults and adults. (Spring)

NOND 099. Student Missions Orientation 0 hours [Noncredit]

This class is administered by the College Chaplain.

A course designed to help students better understand cultural differences, interpersonal relationships, health care for others and themselves, social and monetary problems, personal qualifications for service, and relevant denominational policies for overseas service. The class is required by the General Conference of Seventh-day Adventist for those under appointment as student missionaries. The class is also a prerequisite for students participating in the North American Division Task Force Program. (Spring)

NOND 227-228. Christian Service I, II 6,6 hours

This class is administered by the College Chaplain.

Prerequisite: RELP 099.

A two-semester sequence for elective credit only, designed for student participants in the North American Division Task Force and Student Mission Program. The credit is primarily field work characterized by Christian witnessing and other assignments. Other activities may be designated. Students may earn six credit hours by completing one semester or twelve credit hours by completing a full academic year. Periodic reports from the students and on-site supervisors may be required. A 90 percent tuition waiver applies to this class, according to the policy on page 235. The policy for tuition refunds applies. The date the college receives notification of withdrawal will be the official withdrawal date. May not be repeated for credit.

(D-3) (F-3) (G-3) See pages 25-29 for explanation of general education requirements.

NURSING

Chair: Katie Lamb

Collegedale Faculty: Carolyn Achata, Pam Ahlfeld, Glenda Davidson, David Gerstle, Lorella Howard, Bonnie Hunt, Constance Hunt, Phil Hunt, Barbara James, Caroline McArthur, Laura Nyirady, Dana Reed, MaryAnn Roberts, Shirley Spears, Jean Springett, Judy Winters

Collegedale Adjunct Faculty: Bodil Morris, Linda Sanders

Orlando Faculty: Dusanka Hristic, Millie Preussner, Erma Webb

Bayonet Point Adjunct Faculty: Rocky Gale, Paula Leonard, Richard Somsel

The nursing program at Southern College is a 2+2 program that leads to a baccalaureate degree in nursing with the option to exit at the associate degree level. The holders of an associate degree from a state approved program in nursing may progress into upper division nursing. Licensed diploma graduates and associate degree graduates from a non-NLN accredited program will be evaluated on an individual basis.

The curriculum in the lower division leads to an Associate of Science degree in nursing which may be completed in two academic years, plus summer courses. At this time the student is eligible to write state board examinations to become a registered nurse.

A well-equipped learning center and a skills laboratory are provided to assist students in learning experiences.

ASSOCIATE AND BACCALAUREATE PROGRAMS

The curriculum in the upper division provides the student an in-depth study in clinical nursing in addition to prescribed courses. Diploma graduates will be required to participate in validation procedures designed to evaluate their previous program of study.

A new class is accepted for lower division in the fall semester of each year with a limited number of students due to available clinical facilities and teachers. The upper division class is not limited in size.

POLICIES

Students who are admitted to Nursing are considered adequately mature to realize the importance of accepting personal responsibility for their learning and professional behavior.

The Department of Nursing Student Handbook contains the policies of the department. Each student contracts to abide by the regulations as outlined. The programs on the main campus and all extension campuses are governed by the same policies.

Transportation for clinical appointments is not provided for the students enrolled in upper division nursing courses. Students will be expected to provide their own transportation or make arrangements to share this expense with fellow students in the same course.

Because regular tuition charges and fees cannot cover the total cost of nursing education, an additional "Nursing Education Fee" is charged each semester to help offset the costs (see Special Fees and Charges under Financial Policies section of this catalog).

The Tennessee State Board of Nursing and other State Boards reserve the right to deny licensure in their states if the applicant has an unresolved

felony on record in any state. The Nursing Department reserves the right to deny admission to or remove students from the nursing program who have records of misconduct, legal or otherwise, that would jeopardize their professional performance.

The Nursing Department reserves the right to revise, add, or withdraw policies and/or courses as necessary to ensure a quality nursing program.

ACCREDITATION

The programs in nursing are fully accredited by the National League for Nursing. They are recognized by the Board of Regents of the Department of Education of the General Conference of Seventh-day Adventists, Florida Board of Independent College and Universities, and approved by the Tennessee Board of Nursing.

ASSESSMENT

The Department of Nursing has an ongoing assessment program. Each AS degree student is required to write standardized NLN examinations at specific intervals. Upon completion of the required nursing courses, a comprehensive nursing examination is given. The national NCLEX-RN licensure examination is written upon graduation. The Tennessee State Board of Nursing requires an annual pass rate of 86% for first time writers on the NCLEX-RN licensure examination in order for a school to be eligible for continued approval.

To help the B.S. graduates to evaluate their academic progress and to aid the department in evaluating teacher effectiveness, each student during the spring semester of their senior year will be required to:

1. Write a self-analysis
2. Complete an end-of-program survey
3. Complete an exit examination

PROGRAMS IN NURSING

Major—B.S. in Nursing (64 Hours)

(Includes 28 hours of A.S. level courses)

| <u>Required Courses</u> | | <u>Hours</u> | <u>Required Cognates</u> | | <u>Hours</u> |
|-------------------------|------------------------------|--------------|--------------------------|---------------------------|--------------|
| | A.S. Level Courses | 28 | BIOL 101-102 | Anatomy & Physiology | 6 |
| NRSB 320 | Medical/Surgical Nrs | 6 | BIOL 225 | Microbiology | 4 |
| NRSB 325 | Adv & Pathologic Prin of | | CHEM 111 | Survey of Chemistry I | 3 |
| | Human Physiology (W) | 4 | CHEM 112 | Survey of Chemistry II | 3 |
| NRSB 326 | Prof Concepts & Issues | 2 | CHEM 114 | Survey of Chemistry Lab | 1 |
| NRSB 327 | Nursing Assessment | 4 | ENGL 101-102 | College Composition | 6 |
| NRSB 335 | Community Health Nursing | 6 | FDNT 125 | Nutrition | 3 |
| NRSB 389 | Pharmacology | 3 | PSYC 128 | Developmental Psychology | 3 |
| NRSB 484 | Current Trends in Nrs Prac | 3 | RELT 373 | Christian Ethics | 3 |
| NRSB 485 | Management | 3 | SOCI 125 | Introduction to Sociology | 3 |
| NRSB 497 | Nursing Research Methods (W) | 3 | SOCI 349 | Aging and Society (W) | 3 |
| | Electives | 2 | | | |

| <u>Required General Education</u> | | <u>Hours</u> |
|-----------------------------------|-------------------------|--------------|
| MATH 215 | Statistics (Required) | 3 |
| PEAC 225 | Conditioning (Required) | 1 |
| | Area B, Religion | 9 |
| | Area C-1, History | 3 |
| | Area C or D | 3 |
| | Area D, Lang/Lit/F Arts | 3 |

Major—A.S. Nursing (34 Hours)

| <u>Required Courses</u> | <u>Hours</u> |
|------------------------------------|--------------|
| NRS 105 Foundations of Nursing | 7 |
| NRS 108 Nursing Trends | 1 |
| NRS 114 Medical Surg Nursing I | 5 |
| NRS 115 Medical Surgical Nrs II | 5 |
| NRS 213 Nrs of Childbearing Family | 4 |
| NRS 217 Mental Health Nursing | 4 |
| NRS 320 Medical Surgical NRS III | 8 |

| <u>Required Cognates</u> | <u>Hours</u> |
|-----------------------------------|--------------|
| BIOL 101-102 Anatomy & Physiology | 6 |
| BIOL 225 Microbiology | 4 |
| FDNT 125 Nutrition | 3 |
| PSYC 128 Developmental Psychology | 3 |
| SOCI 125 Intro to Sociology | 3 |

| <u>Required General Education</u> | <u>Hours</u> |
|---|--------------|
| ENGL 101-102 College Composition | 6 |
| Area B, Religion (Including a RELB course) | 6 |
| Area C, History | 3 |

Contact the Nursing Department for a suggested sequence of courses.

*Graduates of a state-approved associate degree nursing program will be considered to have met the general education requirements for the first two years of the program, with the exception of history/humanities and English. If Area C-1 or ENGL 101-102 courses were not included in the associate degree program, they must be taken in fulfillment of the Bachelor of Science degree general education requirements. A maximum of 72 semester hours will be accepted from a college where the highest degree offered is the associate degree.

ADMISSION REQUIREMENTS

The final decision on acceptance and continuation in nursing is made by the Department of Nursing. Declaration as a nursing major is not the equivalent of acceptance to the Department of Nursing. Minimum requirements for admission to nursing courses are listed below:

1. Acceptance to Southern College.
2. Having a diploma from a four-year accredited high school or the equivalent.
3. The applicant must show evidence of physical, mental, and moral fitness. Further references or information may be required regarding character, attitude, or coping ability in case of a question in these areas.
4. Students whose native language is not English must achieve at least 550 on the Test of English as a Foreign Language (TOEFL).
5. Students will maintain a current CPR certificate throughout the nursing program.
6. Foreign student transcripts will be evaluated by World Education Services. The cost for this evaluation will be paid by the applicant. The number of credits accepted for transfer to Southern College may vary from those listed on the evaluation, in accordance with the policies of Southern College.

Associate Degree

1. High school grade point average of 2.50 minimum (on a 4.00 scale) on solids (math, science, English, history, foreign language).
2. Two semesters of high school chemistry with a minimum grade of "C" or CHEM 111 with a minimum grade of "C."
3. Minimum ACT standard enhanced score of 16 in Math, 20 in Reading, and 19 in English and composite.

4. If the high school GPA or the Enhanced ACT scores are below the minimum requirement, it will be necessary for the student to take a minimum of 12 semester college hours for two semesters maintaining a grade point average of at least 2.70 on a 4.00 scale in required courses leading to nursing (including three hours each of English and math).
5. Science credits (Anatomy & Physiology, Chemistry, Microbiology, Nutrition) earned more than eight years prior to admission will not be accepted. Applicants may choose to validate knowledge by examination or by repeating the course.
6. Students with previous college work must have a minimum current and cumulative grade point average of 2.70 on a 4.00 scale in nursing cognate and solid courses (math, science, English, history, foreign language) before being considered for clinical nursing courses.
7. ACT scores are required of all nursing students.
8. Transfer students from another nursing program will be evaluated individually and accepted on a space available basis.
9. A student who has successfully completed a practical nurse program and NRS 103, Associate Nurse Perspectives, may receive seven (7) credit hours of advanced placement in nursing and will articulate directly into the second semester of nursing. The student becomes a part of the generic associate degree program after articulating into the second semester of nursing.
10. ACT-PEP examinations in Anatomy and Physiology (6 credits) and microbiology (3 credits) will be accepted as an alternative method of college credit for LPNs if these credits are already on the transcript when applying to the nursing program.

The following should be sent by March 1 to the College Director of Admissions: (1) application to the college (2) application to the Department of Nursing (3) high school and college transcripts (4) ACT scores. It is the applicant's responsibility to see that all application materials are received by the Nursing Department prior to the deadline.

Students accepted to clinical nursing are required to send an advance payment of \$310 to hold their place in the class. This payment also serves as the first semester's Nursing Education Fee and is in addition to any other payment.

Baccalaureate Degree

Students wishing to enter the baccalaureate level nursing courses must send an application to the department's Coordinator of Admissions. Upon acceptance to upper division nursing, courses currently listed in the catalog will be required of all students.

Minimum requirements for admission to upper division nursing are as follows:

1. A student **must** hold a license to practice professional nursing prior to registering for baccalaureate level clinical courses.
2. Minimum grade point average of 2.50 for lower division in nursing with no grade below a "C."
3. Minimum cumulative grade point average of 2.50 with no grade below "C" for lower division cognate courses.

4. For the B.S. one-year curriculum track: minimum grade point average of 2.70 for nursing and courses leading to the B.S. degree and holds a license to practice professional nursing.

5. Experience:

- A. Applicant who has graduated within five years prior to application:

1. Satisfactory clinical performance and character references are required from basic nursing program.
 2. Satisfactory work performance and character references are required from employer(s). Students who have graduated within the previous 12 months will be exempt from work requirement.

- B. Applicant who has graduated more than five years prior to application:

1. Minimum of one year satisfactory work experience in nursing for each five years since graduation and one year must be in the last five years.
 2. Satisfactory work performance and character references are required from employer(s).

6. Nursing Credits:

- Graduates of NLN accredited AA/AS and Diploma Nursing Programs:

When entering the B.S. nursing program, a transfer student will have placed in escrow 28 credits of lower division nursing and 6 credits of upper division nursing (NRSG 320). After successfully completing 10 semester hours of upper division nursing at Southern College, these credits in escrow will be placed on the transcript as accepted credits toward a B.S. degree with a major in nursing.

The 6 credits of upper division nursing (NRSG 320) in escrow policy applies to Southern College A.S. graduates prior to 1991.

- Graduates of non-NLN accredited AA/AS and Diploma programs:

Prior to registering for upper division nursing courses, the student must take the Nursing Mobility II examination. This policy applies to ALL Diploma graduates after 1999.

Students are responsible for the cost of taking the examination(s) and the fee charged by the college for recording advanced credit on the transcript.

7. General Education and Cognates:

ACT-PEP examinations in Anatomy and Physiology (6 credits) and microbiology (3 credits) will be accepted as an alternative method of college credit for RNs if these credits are already on the transcript when applying to the nursing program.

- A. Associate Degree

Graduates of a state approved associate degree program will be considered to have met general education requirements for the first two years of the program with the exception of History/Humanities and English provided that criterion #2 has been met. If Area C-1 or ENGL 101, 102 courses were no included in the Associate Degree program, they must be taken in fulfillment of the Bachelor of Science degree general education requirements.

- B. Diploma Graduate

1. Credit is acceptable for courses comparable to those required at Southern College if received from an accredited senior or junior college or by examination according to the policy state in this CATALOG.

2. All cognates for the first two years must be completed before entering junior nursing courses. General education requirements may be taken concurrently.

C. CHEM 111 must be completed before entering junior level nursing courses.

PROGRESSION REQUIREMENTS

Associate Degree

1. A grade of at least "C" (2.00) is required in each nursing course for progression and/or graduation.
2. A grade of at least "C" is required in each nursing cognate with a minimum cumulative grade point average of at least 2.50 on a 4.00 scale in the cognates for progression in nursing. Cognate courses are BIOL 101, 102; FDNT 125; PSYC 128; BIOL 225; SOCI 125.
3. No more than two courses may be repeated. Only one may be a nursing course. Repeats may be in the following combinations: one nursing course and one cognate course, or two cognate courses.
4. Students who do not complete a semester or progress with their class, cannot be assured placement in their choice of a subsequent course.
5. A cumulative grade point average of at least 2.50 is required in both nursing and cognates for graduation.
6. Students are required to demonstrate satisfactory performance on standardized tests. Remedial work and/or delay in progression in the program will be required if the required performance level is not achieved.
7. Any remedial contracts must be fulfilled prior to progression or graduation (see Nursing Student Handbook).
8. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Department Chair.

Baccalaureate Degree

1. A grade of at least "C" (2.00) is required in each nursing course for progression and/or graduation.
2. A grade of at least "C" is required in each nursing cognate with a minimum cumulative grade point average of at least 2.50 on a 4.00 scale in cognates for progression in nursing. Cognate courses are CHEM 111, 112, 114; RELT 373; SOCI 349.
3. A cumulative grade point average of at least 2.50 is required in both nursing and cognates for graduation.
4. No more than two courses may be repeated. Only one may be a nursing course. Repeats may be in the following combinations: one nursing class and one cognate course, or two cognate courses.
5. Any cognate course taken off campus during the time the student is enrolled at Southern College (school year or summer) must be approved by the Nursing Department chair.

Readmission

1. Acceptance to Southern College.
2. Submit a nursing reapplication form to the Nursing Department at least one semester prior to re-entering the program.
3. A cumulative grade point average of 2.50 on a 4.00 scale is required for readmission to the nursing program.

4. Meet specified requirements as set forth by the department relating to the individual applicant.
5. A personal interview with a designated nursing faculty member.
6. A student in the Associate Degree program **must** wait one semester/summer before repeating a failed nursing course.
7. If a lapse of time greater than two years occurs in a student's program of study, prior nursing credits will not be accepted unless an applicant can validate nursing knowledge through written examination and clinical performance (for associate degree only).

NURSING

NRSG 103. Associate Nurse Perspectives

1 hour

Prerequisite: Successful completion of the following: an approved LPN program; Nursing Mobility Profile I Examination; examination over basic skills common to all areas of nursing.

This course is designed to supplement and prepare the Licensed Practical Nurse for advanced placement and career mobility.

NRSG 105. Foundations of Nursing

7 hours

Prerequisites: Chemistry (high school or equivalent), BIOL 101.

Corequisites: FDNT 125; BIOL 102; PSYC 128.

This course is an introduction to the physical, psychosocial, spiritual and developmental aspects of health care. The student develops an understanding and utilization of the nursing process, and acquires basic nursing skills common to all areas of nursing. Four and three-fourths theory, two and one-fourth hours clinical. (Fall)

NRSG 108. Nursing Trends

1 hour

An introduction to the profession nursing, including an overview of nursing history, nursing organizations, education, legal and ethical issues, and opportunities of the profession. It will provide an understanding of the associate nursing role, familiarize the student with philosophy of spiritual care, and give an orientation to the program and its philosophy and organizing structure. (Spring)

NRSG 114. Medical-Surgical Nursing I

5 hours

Prerequisites: BIOL 102; FDNT 125; PSYC 128; NRSG 105.

Corequisite: NRSG 108.

This course provides students with the theory and practice of nursing which include selected basic needs of individuals (across the life span) at various points on the wellness-illness continuum. This includes focusing on those with selected medical-surgical problems. The nursing process is utilized to promote physical, psychosocial, and spiritual health, intervene in illness, and assist in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

NRSG 115. Medical-Surgical Nursing II

5 hours

Prerequisites: BIOL 102; NRSG 114; **Corequisite:** NRSG 108.

This course provides students with the theory and practice of nursing continuing with individuals (across the life span) needs at various points on the wellness-illness continuum. This includes focusing on the nursing process as applied to individuals experiencing select medical/surgical interferences of increased complexity; promoting physical, psychosocial, and spiritual health; intervening in illness; and assisting in rehabilitation. Two and three-fourths hours theory, two and one-fourth hours clinical. (Spring)

NRSRG 213. Nursing of the Childbearing Family 4 hours**Prerequisites:** PSYC 128; NRSRG 115.

This course provides nursing students with theory and practice in the care of childbearing families. This includes promoting physical, psychosocial, spiritual, and developmental health of expectant mothers and their infants before, during and immediately following delivery, utilizing the nursing process. Two and one-half hours theory, one and one-half hours clinical. Course includes a speech component. (Fall, Spring)

NRSRG 217. Mental Health Nursing 4 hours**Prerequisites:** NRSRG 115; PSYC 128.

This course provides students with the opportunity to utilize the nursing process in intervening with clients throughout the life span with emphasis on specific psychosocial needs at different points on the wellness-illness continuum. Two and one-half hours theory, one and one-half hour clinical. (Fall, Spring)

NRSRG 255. Perioperative Nursing 3 hours**Prerequisites:** BIOL 101-102, 225; NRSRG 108, 115.

An introduction to perioperative nursing. The course provides opportunity for applying theory and knowledge of basic sciences to practice; thus, enabling the nurse to care effectively for the client before, during, and after surgical intervention. (Theory 2 hours, Clinical 1 hour) (Spring)

NRSRG 265. Women's Issues (F-3) 3 hours

A study of current topics affecting women's general health. The content will focus on physical, psychosocial, and spiritual issues. **For Non-nursing students only.** (Spring)

NRSRG 310. Parish Nursing 3 hours**Prerequisites:** NRSRG 335 or NRSRG 346 and 346 (Orlando Center).

A course designed to provide opportunity for the nurse to use independent judgement in developing a health ministry in local church communities. Course content and skills are designed to prepare the nurse to perform in the roles of educator, consultant, and counselor on health-related issues for church members and staff. A variety of experiences will be chosen from clinical settings such as hospices, hospital chaplaincies, and church organizations. Two hours theory, one hour clinical. (Offered alternate years)

NRSRG 320. Medical-Surgical Nursing III 8 hours**Prerequisite:** NRSRG 115; **Pre- or corequisite:** BIOL 225.

This course provides students with theory and practice of utilizing the nursing process in dealing with complex needs related to physical, psychosocial, spiritual, and developmental aspects of individuals (across the life span) who have acute medical-surgical interferences. The student is introduced to leadership concepts. Four hours theory, four hours clinical. (Fall, Spring)

NRSRG 325. Advanced and Pathologic Principles of Human Physiology (W) 4 hours**Prerequisite:** NRSRG 320, BIOL 225; **Pre- or corequisite:** CHEM 112/114.

This course assists the student to integrate principles of physiology with clinical practice, to correlate physical manifestations with pathologic interferences, and to move toward more independent predictive care of clients. Four hours theory. (Fall, Spring)

NRSRG 326. Professional Concepts and Issues 2 hours**Prerequisite:** NRSRG 320

A course designed to assist the registered nurse student in the transition of learning from an associate degree or diploma program to the baccalaureate approach to nursing. Focus will be on the development and presentation of concepts and current issues related to professional nursing. To meet the objectives of the course, a field trip may be required. Course includes a speech component. (Fall)

NRSG 327. Nursing Assessment 4 hours

Prerequisites: NRSG 320, RN License; **Pre- or corequisites:** NRSG 326.

This course provides opportunities for creativity in the utilization of the expanding role of the clinical practitioner and enables the student to develop advanced skills in utilizing the nursing process through history taking, physical examination, health planning, and counseling of the patient/client. Three hours theory, one hour clinical. Two all-day clinical experiences are required. (Fall)

NRSG 335. Community Health Nursing 6 hours

Prerequisites: NRSG 326, 327; RN License; MATH 215 (desirable).

A course which focuses upon the application of the nursing process in assessment of health needs of individuals, families, and communities. An epidemiological focus is utilized in diagnosis of aggregate health needs, with emphasis on primary, secondary, and tertiary levels of prevention. Clinical applications in various community agencies are utilized, as well as a family case study and aggregate project and paper. Three hours theory, three hours clinical. Course includes a speech component. (Fall, Spring)

NRSG 346. Community Health Nursing 3 hours

Prerequisites: NRSG 326, 327, RN License; MATH 215 (desirable).

A course which includes concepts of community health, with emphasis on community assessment and working with groups. One and one-half hours theory, one and one-half hours clinical. (Orlando Center only)

NRSG 347. Community Health Nursing 3 hours

Prerequisites: NRSG 346, RN License; MATH 215 (desirable).

A course which includes concepts and practice of the nursing process with emphasis on moving individuals, families and communities toward their optimal levels of functioning on the wellness-illness continuum. This course combines community and mental health concepts. One and one-half hours theory, one and one-half hours clinical. Course includes a speech component. (Orlando Center only)

NRSG 389. Pharmacology 2 hours

Prerequisites: CHEM 111-112, 114; NRSG 115.

Study of pharmacologic concepts. Focus will include major classifications, pharmacokinetics, drug interactions, and nursing consideration. (Fall, Spring)

NRSG 465. Topics in Nursing 1-3 hours

Selected topics designed to meet the needs or interests of students in specialty areas of Nursing not covered in regular courses. This course may be repeated for credit.

NRSG 484. Current Trends in Nursing Practice 3 hours

Prerequisites: NRSG 326, 327, RN License; **Pre- or corequisites:** NRSG 325, 389.

This course provides opportunity for the student to apply theory from previous baccalaureate nursing courses such as Nursing Assessment, Pharmacology, and Pathophysiology to clinical practice in general medical-surgical nursing and areas of special interest. Lecture content provides updates in major areas of nursing practice. One and one-half hours theory, one and one-half hours clinical. (Spring, Summer)

NRSG 485. Management 3 hours

Prerequisites: NRSG 326, 327, RN license; **Pre- or corequisites:** NRSG 325, 389.

This course provides the opportunity for the student to use critical decision-making in developing management skills. This is accomplished primarily through the leadership, models, management and administrative experiences in selected clinical settings. Two hours theory, one hour clinical. In order to meet the objectives of the course, a field trip may be required. (Spring)

NRSRG 497. Nursing Research Methods (W)**3 hours****Prerequisites:** MATH 215; ENGL 102.

Scientific methods of inquiry are applied to nursing problems including framework for practice, principles of data treatment, and analysis. The student plans a research proposal. The course is designed to give the student the concepts, methods, and tools for being an intelligent consumer of research and critical evaluation. Three hours theory. (Fall, Spring)

NRSRG 295/495. Directed Study**1-3 hours****Prerequisite:** Approval of department chair.

Individual study in an area of choice shall be worked out with the department prior to registration. Either upper or lower division credit may be earned. The area of directed study will appear on the transcript. No more than six hours directed study may be applied toward a degree.

(F-3) (W) See pages 25-29 for explanation of general education requirements.

THE ORLANDO CENTER

Major—B.S. in Nursing

A part-time program is offered. Admission and progression requirements are the same as those on the main campus. All diplomas and official transcripts are issued from the parent campus. For information contact:

1. **Southern College of SDA - Orlando Center**

653 Lake Estelle Drive
Orlando, FL 32803

Erma Webb, MSN, RN, Coordinator
(407) 897-1890

2. **Southern College of SDA—HCA Blake Campus**

2020 59th Street, W
Bradenton, FL 34209

Southern College of SDA—HCA Bayonet Point/Hudson Campus
14000 Fivay Road
Hudson, FL 34667

Nancy Haugen, MSN, RN, Coordinator
(813) 792-6611 Blake Campus
(813) 863-2411 Bayonet Point Campus

3. **Linda Marlowe, Admission Coordinator for all campuses**

Southern College of SDA
P.O. Box 370
Collegedale, TN 37315-0370
(615) 238-2941

PHYSICS

Chair: Ken Caviness

Faculty: Chris Hansen, Ray Hefferlin, Henry Kuhlman

Adjunct Faculty: Cyril Roe

Many doors of service await students who study physics. SC physics major graduates have become academy and high school teachers, and professors and researchers in physics, in America and overseas. Also, one or more of them has served as aerospace researcher for the Apollo project, anesthetist, chemical researcher, computer systems manager, computer network manager at large factory, corporation pilot, dentist, family-practice medical doctor, full-time homemaker, geologist, historian of science, instructor for fossil-fuel power-plant operators, instructor for nuclear-reactor operators, lawyer, mathematician, nuclear-plant walk-down engineer, oceanographer, oil-drilling engineer, planner for Space Station Freedom, radiologist, reliability designer for long-distance telephone systems, radio station engineer, and researcher in educational statistics.

ASSESSMENT

To help the graduates in Physics evaluate their academic progress and to aid the department in evaluating teaching effectiveness, each senior is required to:

1. Take the physics portion of the GRE. A score above the 35th percentile is necessary for recommendation for graduate study.
2. Take PHYS 480 and do original research as a prerequisite.

Alumni are surveyed and studies are prepared comparing GRE results, careers, and graduate-study success. Information gained from the assessments and studies is used to evaluate departmental programs.

PROGRAMS IN PHYSICS

Major—B.A. Physics (30 Hours)

| Required Courses | | Hours | Strongly Recommended Electives | | Hours |
|------------------|---|-------|--------------------------------|--------------------------|-------|
| PHYS 155 | Descript Astronomy: Creation & Cosmology | 3 | CPTR 105 | Intro to Word Processing | 1 |
| PHYS 211-212 | General Physics | 6 | CPTR 106 | Intro to Spreadsheets | 1 |
| PHYS 213-214 | General Physics Lab | 2 | CPTR 107 | Intro to Database | 1 |
| PHYS 310 | Modern Physics | 3 | PHYS 400 | Physics Portfolio | 1 |
| PHYS 215,216 | General Physics Cal Appli | 2 | TECH 174 | General Metals | 3 |
| PHYS 412 | Quantum Mechanics | 3 | | | |
| PHYS 480* | Scientific Writing (W) | 1 | | | |
| | Physics Electives | 10 | | | |

*Satisfies the writing and speech components of the major.

200 PHYSICS

Sample Freshman Year Sequence B.A. Physics

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|-----------------------|-------|--------------|--------------------------|-------|
| CPTR 106 | Intro to Spreadsheets | 1 | CPTR 105 | Intro to Word Processing | 1 |
| CPTR 107 | Intro to Data Base | 1 | ENGL 102 | College Composition | 3 |
| ENGL 101 | College Composition | 3 | MATH 121 | Precalculus Trigonometry | 2 |
| MATH 120 | Precalculus Algebra | 3 | PHYS 137 | Intro to Physics | 3 |
| PHYS 155 | Descriptive Astronomy | 3 | | Area B, Religion | 3 |
| | Area C-1, History | 3 | | Area F-2, Fam Sci | 2 |
| | | 14 | | OR | |
| | | | | Area F-3, Hlth Science | 14 |

Major—B.S. Physics (40 Hours)

| Required Courses | Hours | Strongly Recommended Electives | Hours |
|---|-------------------|--------------------------------|-------|
| PHYS 211-212 General Physics | 6 | CPTR 425 Computer Graphics | 3 |
| PHYS 213-214 General Physics Lab | 2 | TECH 174 General Metals | 3 |
| PHYS 310 Modern Physics | 3 | | |
| PHYS 215,216 General Physics Cal Appl | 2 | | |
| PHYS 412 Quantum Mechanics | 3 | | |
| PHYS 413 Analytic Mechanics | 3 | | |
| PHYS 414-415 Electrodynamics | 6 | | |
| PHYS 418-419 Advanced Quantum Mechanics | 6 | | |
| PHYS 295/495 Directed Study | 1-3 | | |
| | OR | | |
| PHYS 297/497 Undergrad Research | 1-2 | | |
| PHYS 480* Scientific Writing (W) | 1 | | |
| | Physics Electives | 5-7 | |

*PHYS 480 satisfies the writing and speech components of the major.

Note: Computers are used routinely in all of these courses.

Students are expected to become student members of the American Physical Society and to purchase a book of mathematical tables or a computer-based mathematics resource.

Sample Freshman Year Sequence B.S. Physics

| 1st Semester | | Hours | 2nd Semester | | Hours |
|--------------|---------------------|-------|--------------|------------------------|-------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| MATH 181 | Calculus I | 3 | MATH 182 | Calculus II | 4 |
| PHYS 211 | General Physics | 3 | MATH 216 | Set Theory & Logic | 2 |
| PHYS 213 | General Physics Lab | 1 | PHYS 212 | General Physics | 3 |
| | Area B, Religion | 3 | PHYS 214 | General Physics Lab | 1 |
| | Area C-1, History | 3 | PHYS 215 | Gen Phys Calculus Apps | 1 |
| | | 16 | PHYS 216 | Gen Phys Calculus Apps | 1 |
| | | | | | 16 |

Minor—Physics (18 Hours)

| Required Courses | Hours |
|---------------------------|-------|
| Physics Electives | 12 |
| Upper Div Physics Courses | 6 |

Major—B.A. Physics, Teacher Certification, 7-12

Secondary certification in Physics requires a baccalaureate degree and completion of professional education courses (page 118) for licensure. Students preparing for secondary teacher certification must also take BIOL 103; CHEM 111-112; ERSC 105; and RELT 317 or 318 or 424. See explanations in the Education and Psychology section.

The student must apply to the Department of Education for admission to the Teacher Education Program before the end of the sophomore year. At the end of the junior year application must be made to do student teaching.

| Required Courses | | Hours | Required Cognates | | Hours |
|------------------|----------------------------|-------|-------------------------------------|-------------------------------|-------|
| PHYS 137 | Intro to Physics | 3 | CHEM 111-112 | Survey of Chemistry | 6 |
| PHYS 155 | Descriptive Astronomy | 3 | ERSC 105 | Earth Science | 3 |
| PHYS 211-212 | General Physics | 6 | BIOL 103 | Principles of Biology | 3 |
| PHYS 213-214 | General Physics Lab | 2 | | | |
| PHYS 310 | Modern Physics | 3 | | | |
| PHYS 215,216 | Gen Physics Calculus Appli | 2 | Select One of the following: | | |
| PHYS 400 | Physics Portfolio | 1 | PHYS 317 | Issues in Phy Sci/Religion I | 3 |
| PHYS 412 | Quantum Mechanics | 3 | PHYS 318 | Issues in Phy Sci/Religion II | 3 |
| PHYS 480 | Scientific Writing (W) | 1 | BIOL 424 | Issues of Nat Sci & Religion | 3 |
| | Physics Electives | 6 | | | |

PHYSICS

PHYS 137. Introduction to Physics (E-3) 3 hours

A general education course stressing the methods of physics, the application of physics and laboratory work which can be done with simple materials. Laboratories include the use of calculators and the computer to do arithmetic, the estimation of numerical quantities and errors, and the construction of apparatus with which to make observations. Satisfies the requirements for some Allied Health fields at some schools; does not apply on major or minor in physics. Two hours lecture, three hours laboratory each week.

PHYS 138. Introduction to Physics Applications (E-3) 1 hour

Prerequisites: Concurrent enrollment in PHYS 137 or previous enrollment and permission of instructor.

Additional theory and practice at the level of PHYS 137, oriented toward applications in the Health sciences. Meets once a week.

PHYS 155. Descriptive Astronomy: Creation and Cosmology (E-3) 3 hours

Constellations and eclipses, astronomical instruments, time and the date line and calendars, astronomical objects with their motions and distances, energy processes in stars and quasars and pulsars, black holes, the infinity (?) and expansion (?) of the universe. Cosmology, the formation and subsequent histories of the solar system and the earth, radioactive dating, life on other worlds, as seen from observational and Biblical perspectives. Three hours lecture each week, with optional opportunities for an observation period.

PHYS 199. Concepts of Physics (E-3) 1 hour

Prerequisite: MATH 121 concurrently.

An introduction to selected topics which often cause difficulty in PHYS 211, 212, such as torque and angular momentum, and relativity. Does not count on a B.S. major in physics. (Spring and fourth summer session)

PHYS 211-212. General Physics (E-3) 3,3 hours

Prerequisites: MATH 120, 121.

The algebraic and trigonometric treatment of mechanics, heat, sound, light, electricity and magnetism, and "modern physics." Applies on the basic science requirement as a non-laboratory science if taken alone and as a laboratory science if taken with PHYS 213-214. (Fall, Spring)

PHYS 213-214. General Physics Laboratory (E-3) 1,1 hours

Prerequisite: Previous or concurrent enrollment in PHYS 211-212.

Laboratory experience designed to illustrate the material in lectures, to familiarize the student with useful measuring apparatus, and to encourage a systematic development of scientific curiosity, caution, and method. (Fall, Spring)

PHYS 215, 216. General Physics Calculus Applications 1,1 hours

Prerequisites: MATH 181; previous or concurrent enrollment in PHYS 211-212. Derivations and problems in General Physics using differential and integral calculus will be studied. Students completing PHYS 211-212 and PHYS 215, 216 will have taken the equivalent of General Physics with calculus. Two class periods per week. (Spring)

PHYS 310. Modern Physics 3 hours

Prerequisites: PHYS 211-212; MATH 181, 182.

The origins of modern physics, quantum theory, the theory of relativity, nuclear physics. Three hours lecture each week. Laboratory experience is available in PHYS 325. (Fall)

PHYS 313. Physical Optics 3 hours

Prerequisites: PHYS 211-212, 310; MATH 182.

Refraction, reflection, interference, and absorption of light are discussed from the standpoint of the ray and especially of the wave theories of light. Laboratory experience is available in PHYS 325. (Spring, even years)

PHYS 315. Spectroscopy 3 hours

Prerequisites: PHYS 211-212, 310; MATH 182.

Interpretation of spectral line and band wavelengths, profiles, and intensities in terms of stars' composition, temperature, pressure, motions. Design of laboratory experiments to obtain atomic and molecular constants. Systematics of atomic and molecular data. Laboratory experience is available in PHYS 497.

PHYS 316. Mathematics of Physics 3 hours

Prerequisite: PHYS 213-214, 310; MATH 315.

See MATH 316 for course description.

PHYS 317. Issues in Physical Science and Religion I (E-3) 3 hours

Prerequisite: One year of high school physics or chemistry or one semester of college physics or chemistry; junior standing and permission of instructor.

The extent to which mathematics and the physical sciences are true because they conform to the real world, or because they are derived from axioms, or because they conform to one's understanding of Scripture. Non-logical factors in the acceptance of scientific statements as authoritative. Application of the scientific method to technology-related problems of global significance. Does not apply to a major or minor in Physics.

PHYS 318. Issues in Physical Science and Religion II (E-3) 3 hours

Prerequisites: One year of high school physics or chemistry or one semester of college physics or chemistry; junior standing and permission of instructor.

The argument for the existence of God from design. The relationship of design to comprehensibility and to causality. Causality in the everyday world and on the subatomic scale. Miracles as associated with awe or with the unknown (by determinists), or with boundary conditions (as in solving problems mathematically), with any one of several aspects of physics, or with God's continual upholding of natural process. Does not apply to a major or minor in Physics.

PHYS 325. Advanced Physics Laboratory I 1 hour

Prerequisites: PHYS 213-214, 310.

Laboratory experiments pertinent to areas of physics except electricity and magnetism. Meets once per week.

PHYS 326. Advanced Physics Laboratory II 1 hour

Prerequisites: PHYS 213-214, 310.

Laboratory experiments pertinent to electricity and magnetism. Meets once a week.

PHYS 400. Physics Portfolio

1 hour

Each student majoring in Physics may compile a portfolio consisting of records of participation in professional activities as suggested by departmental faculty and as initiated by the student. Examples of activities include but are not limited to the following: attendance at club meetings, professional film showings, visiting-scientist seminar, and research review sessions, reading of journals and books, participation at professional meetings, preparation for graduate school and for employment, and lists of concepts or new ideas. The portfolio is reviewed upon the student's registration for this course during the senior year. The grade earned for this credit will depend upon the persistence of the student in participation during his/her stay at Southern College and during summers, and upon the breadth and depth of the entries. It also depends upon the student having his/her portfolio reviewed by the Department at the end of each preceding semester, and the extent to which the Department's suggestions on those occasions are implemented.

PHYS 411. Thermodynamics

3 hours

Prerequisites: PHYS 213-214, 310; MATH 182.

A study of gases, kinetic theory, and quantum statistics. Emphasis is placed on being able to use thermodynamics data in the literature. Three hours of lecture each week. This class is not open to students who have taken CHEM 411. Laboratory experience is available in PHYS 497. (Fall, even years)

PHYS 412. Quantum Mechanics

3 hours

Prerequisites: PHYS 215, 216, 310; MATH 315, or permission of instructor.

The limits to classical physics; wave packets, the Schrodinger equation, eigenfunctions and eigenvalues, one-dimensional potentials, the solution of the Schrodinger equation in spherical-polar coordinates for the hydrogen atom; electron spin and the Pauli requirement for antisymmetric wave functions, with applications to states of light atoms; variation techniques for small atoms and molecules, Hueckel and LCAO methods. This class is not open to students who have taken CHEM 412. (Spring, odd years)

PHYS 413. Analytic Mechanics

3 hours

Prerequisites: PHYS 215, 216, 310; MATH 182, 218, 315 (MATH 316, 317, 318, 319, 411-412 desirable).

The motion of a particle in gravitational and other classical fields is attacked using the techniques of differential equations in the Newtonian, Lagrangian and Hamiltonian forms. Special functions, vector theorems, transforms, and tensors are introduced as needed. Laboratory experience is available in PHYS 325. (Fall, odd years)

PHYS 414-415. Electrodynamics

3,3 hours

Prerequisites: PHYS 215, 216, 310; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable).

Analysis of electrical circuits, electrostatic and magnetostatic fields, and the motion of charges therein. Maxwell's equations and the consequent prediction of electromagnetic waves. Applications to modern atomic and nuclear theory are stressed. Complex mapping, vector theorems, transforms, and special functions may be used. Laboratory experience is available in PHYS 326. (Fall, even years; Spring, odd years)

PHYS 418-419. Advanced Quantum Mechanics

3,3 hours

Prerequisites: PHYS 215, 216, 310, 412; MATH 182, 218, 315, (316, 317, 318, 319, 411-412 desirable)

The structure of quantum mechanics; review of the Thomson, Bohr, and Fermi-Thomas models; operator methods; operators, matrices, and spin; time-independent perturbation theory; corrections to the hydrogen-atom treatment; other atoms and the periodic table; emission and absorption of radiation from atoms; collision theory; elementary particles and their symmetries; group dynamics approach to particle classification. (Fall, odd years; Spring, even years)

PHYS 480. Scientific Writing (W)**1 hour**

Principles and techniques of writing for news releases, periodicals, and research journals. Practice in scientific meeting oral and poster-session presentation. It is expected that the written reports be done with a word processor and that the student will have done some original research of an experimental, computational, or theorem-proving nature before enrolling in this course. PHYS 295/495 and 297/497 exist to fulfill this requirement and there are numerous opportunities with pay at universities and national laboratories during the student's junior-senior summer. (Fall)

PHYS 295/495. Directed Study**1-3 hours**

Prerequisite: Consent of instructor.

This course consists of individual or group work adjusted to meet particular needs in Physics. Approval must be secured from the instructor prior to registration. This course may be repeated for credit. (Fall, Spring)

PHYS 297/497. Undergraduate Research in Physics**1-2 hours**

Prerequisite: Permission of instructor.

Research under direction of a member of the staff. The topic will be assigned in accordance to the interests and capabilities of the student. It is assumed that the student is familiar with one or more spreadsheets, mathematics manipulation programs, and graphing software packages. May be repeated for up to four hours of credit. (Fall, Spring; May be accomplished on a co-op basis during the Summer.)

EARTH SCIENCE**ERSC 105. Earth Science (E-4)****3 hours**

A non-mathematical and qualitative introduction, for non-science majors, to the areas of physical geography, geology, and meteorology. Special consideration is given the environment—conservation or pollution of natural resources. (Fall, Spring)

EDUCATION**EDUC 438. Curriculum and Content Methods/Physics****1 hour**

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials of instruction, planning, testing, and evaluating student performance, the survey and evaluation of textbooks.

(E-3) (E-4) (W) See pages 25-29 for explanation of general education requirements.

RELIGION

Chair: Jack J. Blanco

Faculty: Ron Clouzet, Ron du Preez, Norman R. Gulley, Donn Leatherman, Derek J. Morris, Bruce Norman

Adjunct Faculty: Douglas Bennett, Shelly Litchfield, Ken Rogers, Leo Van Dolson

Advisory Council—Ministerial Recommendations: SC Religion Faculty, Presidents of Conferences within the Southern Union, Southern Union Ministerial Directors, Vice President for Student Services, Director of Student Finance and Accounts, head deans of the two dormitories, college chaplain, college church pastor

As an integral part of Southern College the Religion Department has been given the responsibility by the Board of Trustees to continue to prepare young men and women in theology for the Seminary, the field, and religious education for denominational schools. It also has been asked to provide a degree in Religious Studies and courses in general religion for all students. Courses are designed to enhance their commitment of students to Jesus Christ and their involvement in the mission of the Seventh-day Adventist Church.

MISSION STATEMENT

The Religion Department seeks to provide general education courses that will encourage students to experience an ongoing saving relationship with Jesus Christ, that will enable students to live responsibly and ethically in harmony with the Holy Scriptures and that will further their understanding of the Christian beliefs and values of the Seventh-day Adventist Church.

In addition, the department seeks to provide programs in theology, religious education, and religious studies of a quality that will enable its graduates to find employment and/or enter graduate programs in these or other fields and that will equip them to apply the knowledge and skills of their major field in "real world" situations.

DEPARTMENTAL GOALS

General Education Courses

1. To provide instruction in the Scriptures that enhances an intelligent faith in Jesus Christ.
2. To encourage development of a set of values that will provide a basis for moral decision-making in the Christian life.
3. To acquaint the students with the teachings, history, and global mission of the Seventh-day Adventist Church.

Theology

1. To provide an adequate pre-Seminary training in biblical backgrounds, languages, history, theology, and church ministries to meet entrance requirements to the MDiv degree program offered by Andrews University.
2. To provide instruction and practical experience in church ministries and public evangelism as outlined in the requirements of the Certification for Ministry.

3. To provide professional training that prepares graduates to serve the church effectively in their chosen career.

Religious Education

1. To prepare the student for state and church certification (in cooperation with the Department of Education and Psychology) on the elementary or secondary levels.
2. To support candidates in meeting the requirements of the Education and Psychology Department and its certifying officer by offering a course in Curriculum and Content Methods/Bible and by supervising student teaching.
3. To qualify students to pursue graduate work in biblical and religious studies.

Religious Studies

1. To provide a basic course in biblical and religious studies without meeting the professional requirements of the other two majors.
2. To provide a major for students who are involved in preprofessional programs or who elect a double major, one of which is Religion.
3. To prepare students to become well-informed, local church leaders.

DEPARTMENTAL EFFECTIVENESS

The Religion Department is committed to develop an ongoing assessment and strategy to measure its effectiveness in harmony with the Mission Statement of Southern College, its own mission statement, and the recommendation of the Southern Association of Colleges and Schools.

Faculty Assessment

Effectiveness of the department's faculty and program is directly or indirectly assessed by:

1. Student evaluations of all classes administered regularly through the office of the Vice President for Academic Administration.
2. Departmental majors in the final semester of their senior year.
3. The annual meeting of the faculty with the Chair of the Board and the presidents of conferences within the Southern Union.
4. The yearly meeting of the Ministerial Training Advisory Committee (MTAC) of the North American Division at the Seventh-day Adventist Theological Seminary of Andrews University which coordinates the ministerial programs of all Religion Departments through their respective chairs.

Student Assessment

The quality of the department's graduates as well as its general students is assessed by:

1. A 16PF taken by all Theology majors in their sophomore and senior years with norms arrived at by extensive research of the performance of successful Adventist pastors. If a student's scores differ greatly from these norms, the faculty member assigned to administer the test meets with the student to discuss potential difficulties and to suggest strategies for improvement. This may involve referral to a professional for personal or career counseling.

Classes in Homiletics, Church Ministry, Interpersonal Ministry, and the Summer Field School of Evangelism measure the student's proficiency in those areas. A performance evaluation is submitted by the instructor(s) and kept in the student's file for future reference. This may involve referral to a professional for personal or career counseling.

2. The 16PF is administered by the Department of Education and Psychology to all Religious Education majors. If the student's scores indicate potential difficulties, the Department of Religion is asked to assist in strategies for improvement.
3. A cumulative record of Religious Studies majors is kept as a source of information and recommendation. This record includes data needed for academic advisement and guidance for graduate work or placement.
4. The religion portion of the annual assessment testing program is prepared by the General Education Committee and is administered to all students through the office of the Vice President for Academic Administration.

NOTE: A summary of the evaluations referred to above will be made available in the form of a check sheet to prospective employers who request it and will be signed by the department chair on behalf of the Religion faculty. The department itself cannot guarantee employment.

PROGRAM REQUIREMENTS

Admission to Theology Program

Students seeking admission to the Theology Program must make formal application during the second semester of the sophomore year. (Upper class transfer students must apply during the second semester in residence.) An evaluation and decision by the Religion faculty of the student's over-all potential for success in ministry, including consideration of the applicant's academic progress, emotional stability, social and professional skills determines individual acceptance as a Ministerial Trainee. If at any time, after being admitted to the Theology Program, trainees give evidence of failing to maintain commitment to the criteria or preparation for ministry, they forfeit their standing as trainees and the department's recognition in their senior year as Ministerial Candidates. Theology students must have one year in residence, 2.50 Southern College GPA, 55 hours in coursework, and have taken the department's 16PF to be eligible to be recommended for acceptance as Ministerial Trainees. Acceptance into the ministerial program as a trainee or a candidate is required for the completion of the major in Theology. Students not accepted into the program may choose to complete a major in Religious Studies.

Ministerial Certification and Endorsement

Students wishing to be recommended by the department for denominational employment as ministerial candidates must fulfill the following requirements:

1. Successfully complete the 30-hour B.A. major in Theology.
2. Fulfill requirements for a minor in Biblical Languages.
3. Complete classes for Ministerial Certification.
4. Take required cognates.
5. Pass exit examinations with a score of 70 or above.

Students may apply to the department for variances #2, #3, and #4, provided they meet the following qualifications:

1. Must have attained the age of 35 years prior to enrolling.
2. Must transfer a minimum of 48 semester hours applicable to the program.
3. Must have been active in church work and be recommended by their local conferences for ministerial training on the basis of this work.
4. Must have individualized study programs approved by the department prior to being recommended for ministerial candidacy.

Directed Field Education

The department requires field education of Theology majors. These experiences are designed to enhance professional development by acquainting the student with the multi-faceted responsibilities of ministry, to provide a laboratory for working with experienced pastors and lay leaders in visitation of both active and inactive members, and to allow experience in preaching to area congregations. These experiences are necessary before the student can be recommended by the department for church employment.

Summer Field School of Evangelism

Full-scale evangelistic meetings will be conducted for two months each summer under the direction of the Southern Union Conference of Seventh-day Adventists and the Department of Religion. All Theology majors are required to participate in one such crusade. The department will offer six hours of academic credit in public and personal evangelism and the Southern Union will provide a scholarship for those who are approved by the faculty to participate. Students planning to take the Summer Field School program must have 55 hours with a 2.5 cumulative GPA and RELP 321, 322 to be recommended for admittance. Applications and scholarship information may be obtained from the departmental secretary. Additional evangelistic opportunities for individual students and student teams may be made available upon approval of the department to accommodate requests from the conferences within the Southern Union.

Admission to Religious Education Program

The Religious Education Program is coordinated with the Department of Education and Psychology for the college. Planning for certification by the states and/or endorsement by the Seventh-day Adventist church for Bible teaching is made with the certifying officer of the Education and Psychology Department, both for admission to the Religious Education program in the sophomore year and to the professional semester before the senior year.

The criteria for admission to Religious Education, requirements for secondary Bible teaching, and policies and procedures related to student teaching may be found in the college catalog under the Department of Education and Psychology and obtained from the secretary of the department in Summerour Hall.

Teacher Certification and Endorsement

Those seeking Tennessee State Certification must fulfill requirements listed on page 118 of this catalog.

Admission to Religious Studies

The Religious Studies major is chosen by students interested in pursuing a degree other than a Theology or Religious Education degree, or by students preparing for professional fields such as medicine, dentistry, law, and other graduate studies.

It is a 124-hour liberal arts major and provides a balanced selection of both biblical studies and theology courses. The four-year degree candidate may apply the required 12 hours of General Education courses in religion toward the hours needed for the major, thus reducing the number of extra courses needed to qualify.

General Education Courses in Religion

The objective in all religion courses is to enhance knowledge of and appreciation for the Scriptures, and to assist the student in gaining and maintaining a vital involvement with Jesus Christ, and a personal commitment to serve family, church, community, and the world. Six semester hours of religion are required of the two-year graduate, and 12 semester hours of the four-year graduate. This is equivalent to one three-year course per year which may be selected from any of the religion courses offered. Bachelor degree students must take at least three semester hours at the upper division level. (Detailed information on General Education requirements are found in the college catalog.)

Graduation Requirements

The candidates for graduation in the program for **Theology** must have a 2.00 overall, a 2.25 in their major and in the area of candidacy in order to graduate, and a 2.50 overall for Seminary entrance. In addition to their major they must have 20 hours in Biblical Languages, 24 hours in professional training, and 12 hours in cognates to qualify for Ministerial Candidacy. They must also give evidence of moral, physical, social, and intellectual fitness and demonstrate professional commitment in order for the department to recommend them as prospective ministerial employees. Those students pursuing the **Religious Education** major must have a 2.00 overall and a 2.50 in education and in the field of certification as outlined by the Department of Education and Psychology. The **Religious Studies** candidates for graduation, from the Department of Religion, must have a cumulative grade point average of 2.00 overall and a 2.25 in their major as outlined in the college catalog. All majors must take their respective exit examinations and pass with a score of 70 percent or above prior to graduation.

MASTER OF ARTS IN RELIGION

Beginning with the summer of 1997, the Religion Department will offer a master of arts degree in religion designed for ministers with pastoral experience. Information about the M.A. in religion is available by writing to the Religion Department.

BACHELOR OF ARTS DEGREE PROGRAMS

The bachelor of arts degree in **Theology and Religious Education** requires courses in biblical studies and religion of which three are introductory with others covering the Old and New Testament, the prophetic books of Daniel and Revelation, and the Fundamental Beliefs of Seventh-day Adventists in the light of Christian Theology.

Major—Theology (30 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|------------------------------------|--------------|---------------------------------------|--------------|
| RELB 125 Life & Teachings of Jesus | 3 | RELB 426 Studies in Revelation | 3 |
| RELT 138 Adventist Heritage | 3 | RELB 435 New Testament Studies I | 3 |
| RELB 245 Old Testament Studies I | 3 | RELB 436 New Testament Studies II (W) | 3 |
| RELB 246 Old Testament Studies II | 3 | RELT 484 Christian Theology I | 3 |
| RELB 425 Studies in Daniel (W) | 3 | RELT 485 Christian Theology II (W) | 3 |

Must also include 20 hours in **Biblical Languages**, 24 hours for **Certification for Ministry**, and cognate requirements as follows:

| <u>Minor in Biblical Languages</u> | <u>Hours</u> | <u>Required Cognates</u> | <u>Hours</u> |
|------------------------------------|--------------|------------------------------------|--------------|
| RELL 251-252 Biblical Hebrew | 3,3 | HIST 364-365 Christian Church I,II | 3,3 |
| RELL 271-272 NT Greek I, II | 4,4 | PSYC 124 Intro to Psychology | 3 |
| RELL 311-312 NT Greek III, IV | 3,3 | RELB 301 Biblical Exegesis | 3 |
| | | SPCH 135 Intro to Public Speaking | 3 |

Certification for Ministry

| | |
|--------------------------------------|-----|
| RELP 273 Interpersonal Ministry | 3 |
| RELP 321 Intro to Biblical Preaching | 2 |
| RELP 322 Inter Biblical Preaching | 2 |
| RELP 423 Advanced Biblical Preaching | 2 |
| RELP 424 Evangelistic Preaching | 2 |
| RELP 451-452 Church Ministry I, II | 3,3 |
| RELP 465 Personal Evangelism | 3 |
| RELP 466 Public Evangelism | 3 |
| RELT 265 Spiritual Formation I | 1 |

Guidelines for Gen Ed Electives

| | |
|--|---|
| ACCT 103 College Accounting | 3 |
| CPTR 105 Word Processing | 1 |
| EDUC 134 Prin of Christian Education | 2 |
| ENGL 335 Biblical Literature | 3 |
| HLED 173 Health and Life | 2 |
| MUHL 215 Music in the Christian Church | 2 |
| RELP 354 Intro to Pastoral Counseling | 3 |
| SOCI 223 Marriage and the Family | 2 |

Note: The department recommends that those majoring in Theology not simultaneously take RELL 251-252, Biblical Hebrew, RELL 271-272, New Testament Greek I, II, or RELL 311-312, New Testament Greek III, IV.

Sample Freshman Year Sequence
B.A. Theology

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|------------------------------------|--------------|-----------------------------------|--------------|
| ENGL 101 College Composition | 3 | ENGL 102 College Composition | 3 |
| RELB 125 Life & Teachings of Jesus | 3 | PEAC 225 Conditioning | 1 |
| Area A-2 Math | 3 | PSYC 124 Intro to Psychology | 3 |
| Area E-4, Science | 3 | RELT 138 Adventist Heritage | 3 |
| Area G-2, Skills | 3 | SPCH 135 Intro to Public Speaking | 3 |
| | 15 | Area E, Science | 3 |
| | | | 16 |

Major—Religious Education (30 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | <u>Hours</u> |
|------------------------------------|--------------|---------------------------------------|--------------|
| RELB 125 Life & Teachings of Jesus | 3 | RELB 426 Studies in Revelation | 3 |
| RELT 138 Adventist Heritage | 3 | RELB 435 New Testament Studies I | 3 |
| RELB 245 Old Testament Studies I | 3 | RELB 436 New Testament Studies II (W) | 3 |
| RELB 246 Old Testament Studies II | 3 | RELT 484 Christian Theology I | 3 |
| RELB 425 Studies in Daniel (W) | 3 | RELT 485 Christian Theology II (W) | 3 |

Must include 28 hours in **Education** and cognate requirements as follows:

| <u>Professional Education Reqmnts</u> | <u>Hours</u> | <u>Required Cognates</u> | <u>Hours</u> |
|---|--------------|--|--------------|
| EDUC 135 Intro to Education | 2 | SPCH 135 Intro to Public Speaking | 3 |
| EDUC 217 Psych Found of Ed | 2 | RELB 301 Biblical Exegesis | 3 |
| EDUC 240 Educ for Excep Childr & Yth | 2 | RELL 271-272 NT Greek I, II | 4,4 |
| EDUC 250 Technology in Education | 2 | RELP 321 Intro to Biblical Preaching | 2 |
| EDUC 325 Philosophy of Christian Ed | 2 | RELP 322 Inter Biblical Preaching | 2 |
| EDUC 356 Classroom Assessment | 2 | | |
| EDUC 422 Behavior Mgmt for Adolescents | 2 | <u>Guidelines for General Ed Electives</u> | |
| EDUC 432 Reading in Content - Secondary | 2 | ACCT 103 College Accounting | 3 |
| EDUC 437 Curriual and General Methods | 1 | HLED 173 Health and Life | 2 |
| EDUC 438 Curriual Content Methods/Bible | 1 | RELP 354 Intro to Pastoral Counseling | 3 |
| EDUC 468 Enhanced Student Tchng 7-12 | 10 | SPCH 136 Interpersonal Communication | 3 |

Sample Freshman Year Sequence
B.A. Religious Education

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|------------------------------------|--------------|-----------------------------------|--------------|
| EDUC 135 Intro to Education | 2 | EDUC 217 Psych Foundations of Ed | 2 |
| ENGL 101 College Composition | 3 | ENGL 102 College Composition | 3 |
| RELB 125 Life & Teachings of Jesus | 3 | PEAC 225 Conditioning | 1 |
| RELT 138 Adventist Heritage | 3 | RELT 138 Adventist Heritage | 3 |
| Area A-2 Math | 3 | SPCH 135 Intro to Public Speaking | 3 |
| | <u>14</u> | Area E-4, Science | 3 |
| | | | <u>15</u> |

Major—Religious Studies (30 Hours)

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Cognate</u> | |
|---|--------------|-----------------------------------|---|
| RELB 125 Life & Teachings of Jesus | 3 | SPCH 135 Intro to Public Speaking | 3 |
| RELB 245 Old Testament Studies I | 3 | | |
| RELB 246 Old Testament Studies II | 3 | | |
| RELB 435 New Testament Studies I | 3 | | |
| RELB 436 New Testament Studies II (W) | 3 | | |
| RELT 138 Adventist Heritage | 3 | | |
| RELT 255 Christian Beliefs | 3 | | |
| RELT 368 World Religions (W) | 3 | | |
| RELT 373 Christian Ethics | 3 | | |
| RELT 467 Phil and the Christian Faith (W) | 3 | | |

Sample Freshman Year Sequence
B.A. Religious Studies

| <u>1st Semester</u> | <u>Hours</u> | <u>2nd Semester</u> | <u>Hours</u> |
|------------------------------------|--------------|-----------------------------------|--------------|
| ENGL 101 College Composition | 3 | ENGL 102 College Composition | 3 |
| RELB 125 Life & Teachings of Jesus | 3 | PEAC 225 Conditioning | 1 |
| RELT 138 Adventist Heritage | 3 | RELT 255 Christian Beliefs | 3 |
| Area A-2 Math | 3 | SPCH 135 Intro to Public Speaking | 3 |
| Area G-2, Skills | 3 | Area E-4, Science | 3 |
| | <u>15</u> | Area F-1, Behavioral Sci | 3 |
| | | | <u>16</u> |

MAJOR—A.A. RELIGION (30 Hours)

This degree is designed to prepare the student to be a more effective lay person and becomes marketable only if it leads to a four-year degree.

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses, cont.</u> | |
|---------------------------------------|--------------|--------------------------------------|---|
| RELB 125 Life & Teachings of Jesus | 3 | RELP 273 Interpersonal Ministry | 3 |
| RELB 245 Old Testament Studies I | | RELP 321 Intro to Biblical Preaching | 2 |
| OR | 3 | RELP 465 Personal Evangelism | 3 |
| RELB 246 Old Testament Studies II | | RELP 466 Public Evangelism | 3 |
| RELB 435 New Testament Studies I | | RELT 138 Adventist Heritage | 3 |
| OR | 3 | RELT 255 Christian Beliefs | 3 |
| RELB 436 New Testament Studies II (W) | | RELT 265 Spiritual Formation I | 1 |
| RELB 425 Studies in Daniel (W) | | | |
| OR | 3 | | |
| RELB 426 Studies in Revelation | | | |

Sample Freshman Year Sequence
A.A. Religion

| <u>1st Semester</u> | | <u>Hours</u> | <u>2nd Semester</u> | | <u>Hours</u> |
|---------------------|---------------------------|--------------|---------------------|--------------------------|--------------|
| ENGL 101 | College Composition | 3 | ENGL 102 | College Composition | 3 |
| RELB 125 | Life & Teachings of Jesus | 3 | PEAC 225 | Conditioning | 1 |
| RELT 138 | Adventist Heritage | 3 | RELT 255 | Christian Beliefs | 3 |
| | Area A-2 Math | 3 | SPCH 135 | Intro to Public Speaking | 3 |
| | Area G-2, Skills | 3 | | Area E-4, Science | 3 |
| | | <u>15</u> | | Area F-1, Behavioral Sci | 3 |
| | | | | | <u>16</u> |

MINORS IN RELIGION, BIBLICAL LANGUAGES, AND PRACTICAL THEOLOGY

Minor—Religion (18 Hours)

Those seeking state certification and/or denominational endorsement for teaching in other areas could, with careful selection, also acquire a minor in Religion.

| <u>Required Courses</u> | <u>Hours</u> |
|------------------------------------|--------------|
| RELB 125 Life & Teachings of Jesus | 3 |
| RELT 138 Adventist Heritage | 3 |
| AND | |
| Upper Division Courses | 6 |
| Religion Electives | 6 |

No more than one of the following courses may be chosen to apply toward the minor: RELP 273, 354, 465, 468; RELT 317, 318, 424.

Minor—Biblical Languages (20 Hours)

This minor requires 20 hours from RELL 251-252, Biblical Hebrew; 271-272, New Testament Greek I, II; and 311-312, New Testament Greek III, IV.

Minor—Practical Theology (19 Hours)*

| <u>Required Courses</u> | <u>Hours</u> | <u>Required Courses</u> | <u>Hours</u> |
|--------------------------------------|--------------|------------------------------------|--------------|
| RELP 273 Interpersonal Ministry | 3 | RELP 451-452 Church Ministry I, II | 3,3 |
| RELP 321 Intro to Biblical Preaching | 2 | RELP 465 Personal Evangelism | 3 |
| RELP 322 Inter Biblical Preaching | 2 | RELP 466 Public Evangelism | 3 |

*Non-theology majors must obtain permission from the Religion Department.

BIBLICAL STUDIES

RELB 125. Life and Teachings of Jesus (B-1) 3 hours

A study of the life, ministry, and teachings of Jesus with special emphasis on His teachings as they apply to the personal, social, and religious problems of the individual. (Fall, Spring, Summer)

RELB 175. Acts of the Apostles (B-1) 3 hours

A study of the development of the church during apostolic times, including an introduction to the characters, issues, and events that shaped the earliest Christian communities and the theological development of the gospel by the early church. (Fall)

RELB 301. Biblical Exegesis (B-1) 3 hours

Prerequisite: One semester of Biblical language.

This course is to introduce the student to Biblical Exegesis (i.e. the application of the principles of hermeneutics) in passages of the Bible that are representative of the various literary genres found in the Old and New Testaments. The objective is to acquaint the student with the various presuppositions that determine the choice of hermeneutical approaches to the text; with guidelines (rules) for each step of the interpretation of the text; and to provide an opportunity for involvement in the process of biblical exegesis. (Spring)

RELB 245. Old Testament Studies I (B-1) 3 hours

Prerequisites: Six hours of religion courses.

An introduction to the Pentateuch and Writings, two major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. Various approaches to the study of the Old Testament will be surveyed. (Fall, Summers as needed)

RELB 246. Old Testament Studies II (B-1) 3 hours

An introduction to the Prophets, a third major division of the Old Testament. Attention will be given to the structure, theme, theology, historical setting, and significance of this literature in Christian interpretation. (Spring, Summers as needed)

RELB 335. Archeology and the Bible (B-1) 3 hours

A study of cultures, customs, languages, and rituals that throw light on the understanding of Scriptures based on archeological and other ancient material which, interpreted from the viewpoint of the Bible, emphasizes its accuracy and authenticity. (Spring, occasionally in Summer)

RELB 425. Studies in Daniel (B-1) (W) 3 hours

Recommended: HIST 174, 175.

A study of selected historical and prophetic portions of Daniel to discover their meaning and relevance for today. (Fall, Summers as needed)

RELB 426. Studies in Revelation (B-1) 3 hours

Recommended: HIST 174, 175.

A study of the prophecies and symbolisms of Revelation with their historical fulfillments. Special attention will be given to discovering its special message for our day. (Spring, Summers as needed)

RELB 435. New Testament Studies I (B-1) 3 hours

A brief introduction to and an exegetical study of the following epistles in the order of their composition: Galatians, I and II Thessalonians, I and II Corinthians, and James. Includes a background survey of the book of Acts. (Fall, Summers as needed)

RELB 436. New Testament Studies II (B-1) (W) 3 hours

A brief introduction to and an exegetical study of Romans, the Prison, Pastoral, and General epistles, (excluding James) and Hebrews. (Spring, Summers as needed)

RELB 295/495. Directed Study 1-3 hours

This course is limited primarily to departmental majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

BIBLICAL LANGUAGES

RELL 251-252. Biblical Hebrew (D-1) 3,3 hours

A foundation course in the grammar, syntax, and lexicography of classical Biblical Hebrew, with an emphasis on reading skills. Laboratory work required. (Fall, Spring)

RELL 271-272. New Testament Greek I, II (D-1) 4,4 hours

A study of grammar of the vernacular (*koine*) Greek of New Testament times, with readings in the epistles of John. Laboratory work required. (Fall, Spring)

RELL 311-312. New Testament Greek III, IV (D-1) 3,3 hours

A course in advanced studies, grammar, and syntax of (*koine*) Greek with translation of readings from the Gospel of John, the Synoptics, and the Pauline Epistles. (Fall, Spring)

RELL 295/495. Directed Study 1-3 hours

This course is limited primarily to departmental majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

PROFESSIONAL TRAINING

RELP 251. Introduction to Youth Ministry (B-3) 3 hours

This course will explore the Biblical basis for a specialized ministry to children, youth, and young adults. The students will become acquainted with current research, contemporary approaches, and available resources to enhance ministry to youth. Practical experience in area churches will be required. (Fall)

RELP 273. Interpersonal Ministry 3 hours

The development of listening skills and interpersonal communication in pastoral visitation with special emphasis on revitalizing inactive members. Laboratory work in area churches will be required. (Fall)

RELP 321. Introduction to Biblical Preaching 2 hours

Prerequisite: SPCH 135; RELB 301.

This introductory course examines the foundations for effective Biblical preaching. Attention will be given to the call and preparation of the preacher, principles of Biblical hermeneutics, the elements of sermon formulation, and principles of sermon delivery. A topical, biographical, or narrative sermon will be preached and analyzed in a peer review setting. (Fall)

RELP 322. Intermediate Biblical Preaching 2 hours

Prerequisites: RELP 321.

This course focuses on the preparation and delivery of expository sermons. Attention will be given to the discovery of the exegetical idea of the text, the formulation of the homiletical idea, and how to preach with conviction. Expository sermons will be preached and analyzed in a peer review setting. (Spring)

RELP 354. Introduction to Pastoral Counseling (B-3) 3 hours

This course is an introduction to pastoral redemptive care. Visitation to correctional and rehabilitation centers, hospitals, and nursing homes will be required. This course is not designed as an introduction to professional counseling. (Spring)

REL 423. Advanced Biblical Preaching 2 hours*Prerequisite:* REL 322.

This course explores further methods of expository preaching such as narrative and induction. It also focuses on preaching for special needs and situations, and the development of sermon series emphasizing the great themes of Scripture. Sermons will be preached and analyzed in a peer review setting. (Fall)

REL 424. Evangelistic Preaching 2 hours*Prerequisite:* REL 423.

This course concentrates on the development and delivery of soul-winning sermons with emphasis on decision. Instruction will include sermon preparation for an evangelistic series. Sermons will be preached in a peer review setting. (Spring)

REL 451. Church Ministry I 3 hours

An introduction to church ministry, this course focuses on the responsibilities of clergy and laity, including the call to discipleship and/or ministry, the study of denominational polity, the administrative structure of the church on all levels, and the relationship of the local church to the community. Laboratory work in area churches will be required. (Fall)

REL 452. Church Ministry II 3 hours

Consideration is given the various professional tasks of the pastor, such as pastoral care, administration, leadership in worship, and conducting baptisms, weddings, anointing services, funerals, etc. Laboratory work in area churches will be required. (Spring)

REL 465. Personal Evangelism (B-3) 3 hours

Attention will be given to the principles and practice of one-to-one evangelism, the presentation of the gospel, and the giving of Bible studies. The giving of such studies will be modeled in class and field work with local churches will be required. Theology students must take this course immediately preceding REL 466, Public Evangelism. (Spring)

REL 466. Public Evangelism 3 hours*Prerequisite:* REL 465 and acceptance as a ministerial trainee.

A study of the principles employed in preparing and conducting public evangelistic meetings. The student will learn how to plan, develop, and hold an evangelistic series. This course is available only in connection with the Field School of Evangelism. The consent of the Religion Department must be obtained prior to enrollment. A 100 percent tuition waiver, based on the summer tuition rate, applies to this class. (Summer)

REL 468. Health Evangelism (B-3) 3 hours

A study of the concepts and methods of creating witnessing opportunities through taking advantage of the current interest in preventive health practices and lifestyle changes. The objective of these concepts and methods is to obtain decisions for a more abundant way of life and to lead men and women to Christ. The course also will provide future church leaders with practical ways to utilize the talents of members in health evangelism. Laboratory work in area churches and/or community settings is required. (Fall, Spring, Summers as needed)

REL 295/495. Directed Study 1-3 hours

This course is limited primarily to departmental majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

RELIGION AND THEOLOGY

RELT 138. Adventist Heritage (B-2) 3 hours

A study of the Second Advent Awakening in the nineteenth century and the subsequent development of the Seventh-day Adventist Church. Special emphasis will be placed on the contributory role in the church of the Spiritual Gift of Prophecy through the life and ministry of Ellen G. White. (Fall, Spring, Summer)

RELT 205. Introduction to Christian Missions (B-2) 3 hours

Christian Missions aims at creating an awareness of global missions, its challenges and opportunities, problems and possibilities. The course includes an investigation of the biblical and theological foundations of mission, basic principles of church growth in the practice of mission, essential elements of cross-cultural communication, and relevant insights from applied anthropology. (Spring)

RELT 225. Last-Day Events (B-2) 3 hours

Last-Day Events is a biblical, theological, and historical study of eschatology rooted in its Christ-centered focus. It considers the unique Seventh-day Adventist contribution over against that made by leading scholars both in the past and present. Also it examines the New Age Movement and Dispensationalism and focuses on how to be ready for the end event. (Fall, Spring, Summer)

RELT 255. Christian Beliefs (B-2) 3 hours

Christian Beliefs is a study of Adventist doctrines in a Christ-centered context. This course will involve a study of the major teachings, with a view to enhancing the student's understanding and ability to provide biblical support for his/her faith. (Fall, Spring, Summer)

RELT 265. Spiritual Formation I (B-2) 1 hour

A historical and theological study of Christian spirituality. This course provides a basic introduction to the classic spiritual disciplines, with an emphasis on prayer and fasting, including a practical application of the dynamics of these spiritual disciplines as a means of enriching the spiritual life. (Fall)

RELT 266. Spiritual Formation II (B-2) 1 hour

Prerequisite: RELT 265.

A continued study of the classic spiritual disciplines of the Christian faith with an emphasis on Scripture as a dynamic in personal spiritual formation. This course will focus on contemplative reading of Scripture, journaling, meditation on Scripture, and Scripture memorization. (Spring)

***RELT 317. Issues in Physical Science and Religion I (B-2) 3 hours**

See PHYS 317 for course description.

***RELT 318. Issues in Physical Science and Religion II (B-2) 3 hours**

See PHYS 318 for course description.

RELT 368. World Religions (B-2) (W) 3 hours

A study of several major representative Christian and non-Christian religions, including a survey of the history and the distinctive characteristics of each. This course will require observational field work. (Spring)

RELT 373. Christian Ethics (B-2) 3 hours

A foundation course in moral decision-making in the fields of bio-ethics, moral ethics, and personal ethics. The objective is to discover timeless norms by which to make basic ethical decisions across the professional spectrum. These norms are then applied to issues relevant to the student. Limited to nursing students or students with Junior/Senior class standing. (Fall, Spring, Summers as needed)

***REL 424. Issues in Natural Science and Religion (B-2) (W) 3 hours**

See BIOL 424 for course description.

REL 465. Topics in Religion (B-2) 1-3 hours

This course is designed to provide an exposure to a wide range of religious studies dealing with issues encountered in evangelism, theological areas, and Biblical studies. The content will change, as needed, so the course may be repeated once for credit. Open to all students. (As needed)

REL 467. Philosophy and the Christian Faith (B-2) (W) 3 hours

A study of the main thinkers and schools of thought from the Middle Ages to the present and their influence on biblical theology. Also, attention will be given to various world views which are shaping Christian thought today. (Fall)

REL 484. Christian Theology I (B-2) 3 hours

Recommended: REL 255 or the equivalent.

Christian Theology I examines the major loci of Christian beliefs such as the Doctrine of God, Christology, Pneumatology, Anthropology, Soteriology, Ecclesiology, and Eschatology covering the 27 Seventh-day Adventist Fundamental Beliefs. This is to equip the student to know the doctrines of the church from Scripture and to present them to others. (Fall)

REL 485. Christian Theology II (B-2) (W) 3 hours

Prerequisite: REL 484.

Christian Theology II is a study of the theological issues within the Seventh-day Adventist Church as they relate to the 27 Seventh-day Adventist Fundamental Beliefs. This is to strengthen confidence in Scripture and to equip the student to preach with certainty. (Spring)

REL 295/495. Directed Study 1-3 hours

This course is limited primarily to departmental majors and must be approved by the chair of the Religion Department. Occasionally the course may be conducted as a seminar and published in the schedule of classes. This course may be repeated for credit. (Fall, Spring, Summer)

*One of the "Issues" courses can apply to General Education natural science requirement for majors, and to Religion for nonmajors.

EDUCATION

EDUC 438. Curriculum and Content Methods/Bible 1 hour

Prerequisite: Admission to Teacher Education.

Attention is given to methods and materials construction, planning, testing and evaluating student performance, and the survey and evaluation of textbooks. (As needed)

(B-1) (B-2) (B-3) (D-1) (W) See pages 22-23 and 25-29 for explanation of general degree and general education requirements.

INTERDEPARTMENTAL PROGRAMS

MEDICAL SCIENCE

Adviser: Stephen A. Nyirady

A Bachelor of Science Degree in Medical Science will be conferred upon students not already in possession of a bachelor's degree who satisfy the following three conditions:

1. Complete 93 semester hours in an accredited undergraduate college program of which at least the last 30 were taken in residence at Southern College and at least 12 of which were at the upper division level.
2. Meet the general education requirements equivalent to those outlined for the current Medical Technology program.
3. Provide certification from an accredited professional school of dentistry, medicine, or optometry that the first year of the respective professional program has been successfully completed and that the applicant is eligible to continue.

Request for the conferral of this degree is made to the Director of Records and Advisement.

GENERAL STUDIES

Adviser: Peggy Elkins

The Associate of Arts and Associate of Science degrees with a major in General Studies are designed for students who have not made a career decision at the time they enter college. These degrees offer them an opportunity to earn a large part of the general requirements for a baccalaureate degree while leaving some semester hours free for exploration in areas of their choice.

ASSOCIATE OF ARTS DEGREE IN GENERAL STUDIES

Major: The completion of the general education requirements for the Bachelor of Arts degree with the exception that 6 hours instead of 12 will be required for Area B, Religion. A course in speech must be included. A minimum total of 64 semester hours with a Southern College and cumulative minimum grade point average of 2.00 is required. Students who plan eventually to complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

*Six hours of elementary foreign language must be included unless two units of the same language were earned in high school.

**Typical Sequence of Courses for
A.A. General Studies**

| <u>YEAR 1</u> | | <u>Semester</u> | | <u>YEAR 2</u> | | <u>Semester</u> | |
|---------------|-----------------------------|-----------------|------------|---------------|-------------------|-----------------|------------|
| | | <u>1st</u> | <u>2nd</u> | | | <u>1st</u> | <u>2nd</u> |
| ENGL 101-102 | College Comp | 3 | 3 | | Area B, Religion | 3 | |
| | Area B, Religion | 3 | | | Area E, Nat Sci | 3 | |
| | Area E-1, Nat Sci | 3 | | | Area D, Lang/Lit | | |
| | G-3, Rec Skills | | 1 | | Fine Arts | 3 | |
| | Elective (area of interest) | 3 | 3 | | Area D, Speech | | 3 |
| | Area C, History | 3 | 3 | | Area A, Math | | 0-3 |
| | Area G, Act Skls | 1 | 3 | | Area C, Govt/Econ | | 3 |
| | Area F, Beh Sci | | 3 | | Area F, Beh Sci | | 2 |
| | | <u>16</u> | <u>16</u> | | Area G, Skills | | 1 |
| | | | | | Foreign Language | 3 | 3 |
| | | | | | Electives | <u>4</u> | <u>4-1</u> |
| | | | | | | <u>16</u> | <u>16</u> |

See pages 22-23 and 25-29 for general degree and general education requirements. Note especially requirements for make-up of any admissions deficiencies.

ASSOCIATE OF SCIENCE DEGREE IN GENERAL STUDIES

Major: The completion of the general education requirements for the Bachelor of Science degree with the exception that 6 hours instead of 12 will be required for Area B, Religion. A course in speech must be included. A minimum total of 64 semester hours with a Southern College and cumulative minimum grade point average of 2.00 is required. Students who plan eventually to complete a bachelor's degree should include some upper division credit and a "W" (writing emphasis) course in the second semester of their second year.

**Typical Sequence of Courses for
A.S. General Studies**

| <u>YEAR 1</u> | | <u>Semester</u> | | <u>YEAR 2</u> | | <u>Semester</u> | |
|---------------|-----------------------------|-----------------|------------|---------------|-------------------|-----------------|------------|
| | | <u>1st</u> | <u>2nd</u> | | | <u>1st</u> | <u>2nd</u> |
| ENGL 101-102 | College Comp | 3 | 3 | | Area B, Religion | 3 | |
| | Area B, Religion | 3 | | | Area E, Nat Sci | 3 | |
| | Area E-1, Nat Sci | 3 | | | Area D, Lang/Lit | | |
| | G-3, Rec Skills | | 1 | | Fine Arts | 3 | |
| | Elective (area of interest) | 3 | 3 | | Area D, Speech | | 3 |
| | Area C, History | 3 | 3 | | Area A, Math | | 0-3 |
| | Area G, Act Skls | 1 | 3 | | Area C, Govt/Econ | | 3 |
| | Area F, Beh Sci | | 3 | | Area F, Beh Sci | | 2 |
| | | <u>16</u> | <u>16</u> | | Area G, Skills | | 1 |
| | | | | | Electives | <u>7</u> | <u>4-1</u> |
| | | | | | | <u>16</u> | <u>16</u> |

See pages 22-23 and 25-29 for general degree and general education requirements. Note especially requirements for make-up of any admissions deficiencies.

NON-DEGREE PREPROFESSIONAL PROGRAMS

Preprofessional and pretechnical curricula are offered in a wide variety of fields. Below are listed the curricula most frequently chosen. If other preprofessional programs are desired, faculty advisors are prepared to assist the student in working out a satisfactory sequence of courses needed to meet the admission requirements of the chosen professional school.

ANESTHESIA

Adviser: Bonnie Hunt

Registered nurses who are comfortable working in critical care areas may become registered nurse anesthetists. Graduation from an approved program of nursing and a valid nursing license is required. Additional requirements may be determined by consulting the Department of Nursing.

DENTISTRY

Adviser: John Perumal

Pre-dental training in college requires a minimum of three years of study; however, a preference is given to those who have completed a fourth year, earning a bachelor's degree. Students may major in the field of their interest. Although a thorough background in the biological and physical sciences is essential to the study of dentistry, a broad educational background in the humanities is desirable. Upper division biology courses are recommended to prepare for the Dental Admissions Test and for the first year of basic science courses in dental school.

Application to dental school should be made one year previous to the one for which admission is desired. Successful applicants should have a minimum G.P.A. of 3.00 in both science and non-science courses as well as satisfactory performance on the Dental Admissions Test (given each October and April). Information regarding the Dental Admission Testing Program may be obtained from the American Dental Association, 211 East Chicago Avenue, Chicago, IL 69611.

The following courses must be included to meet the minimum requirements for admissions to the LLU School of Dentistry:

| | |
|--------------------------------------|----------|
| BIOL 151-152 | 8 hours |
| CHEM 151-152, 311-312, 313-314 | 16 hours |
| ENGL 101-102 | 6 hours |
| PHYS 211-212, 213-214 | 8 hours |

The following courses are strongly recommended: Ceramics, Principles of Management, Basic Accounting, Precalculus, Nutrition, Histology, Biochemistry, and Psychology courses.

LAW

Adviser: Ben McArthur

Students interested in the study of law as a profession should become acquainted with the entrance requirements of various law schools. This will make possible the planning of a preprofessional program which will qualify the student for admission to several schools.

It is a general requirement that students complete a bachelor's degree before entering law school. Although no particular major is required, four fields should be especially considered by the student serious about law school. These are: business, history, English, and behavioral science. Certain courses recommended by all law schools include American history, freshman composition, principles of accounting, American government, principles of economics, English history, business law, and mathematics. Pre-law students should concentrate on developing their analytical, verbal, and writing skills.

Southern College offers a Political Economy minor, which combines an interdisciplinary selection of courses helpful for law school preparation. This eighteen-hour minor consists of:

- | | | |
|-------------|---|---------|
| 1. ECON 224 | Principles of Economics | 3 hours |
| 2. PLSC 254 | American Government | 3 hours |
| 3. PLSC 471 | Classics of Western Thought (W) I <u>OR</u> | |
| PLSC 472 | Classics of Western Thought II (W) | 3 hours |
| 4. ENGL 313 | Expository Writing (W) | 3 hours |

Plus six hours of electives selected from the following courses:

- | | |
|------------------|--|
| 5. ACCT 221 | Principles of Accounting |
| 6. ECON 225 | Principles of Economics |
| 7. BUAD 358 | Legal, Ethical, and Social Environment of Business |
| 8. BUAD 339 | Business Law |
| 9. HIST/PLSC 357 | Modern America (W) |
| 10. HIST 374 | History of England (W) |
| 11. JOUR 427 | Mass Media Law and Ethics |
| 12. COOP 265/465 | Cooperative Education Internship (3 Hours) |
- Such internships would include work with one of the following: a lawyer, a legal clinic, a public defender's office, a state or U.S. attorney's office.*

Information about preparation for law school may be obtained from the Section of Legal Education and Admissions to the Bar, American Bar Association, 1155 East 60th Street, Chicago, Illinois 60637. For information about the Law School Admissions Test, see the pre-law adviser.

MEDICINE

Advisers: Joyce Azevedo, Ann Foster, Keith Snyder

Secondary school students who look forward to a career in medicine are advised to include mathematics and science courses during their high school years.

Most applicants complete a Bachelor's Degree prior to entrance into medical school. Exceptional students may be eligible to apply after completion of a minimum of 85 semester hours. Applicants for admission to the Loma Linda University School of Medicine should maintain a grade

point average of at least 3.50 in both science and non-science courses. The following courses without an asterisk must be included in the applicant's academic program. Medical schools generally do not accept CLEP credits for these basic science courses. Classes with (*) asterisks in biology, chemistry, and mathematics are recommended.

| | |
|--|----------|
| BIOL 151-152, 313*, 316*, 330*, 340*, 415*, 417*, 418* | 8 hours |
| CHEM 151-152, 311-312, 313-314, 323* | 16 hours |
| ENGL 101-102 | 6 hours |
| MATH 120, 121, 181* | 3 hours |
| PHYS 211-212, 213-214 | 8 hours |
| Religion | 12 hours |

It is recommended that students plan a curriculum that includes study of the humanities and social sciences to provide a solid preparation for the future role of the physician.

Applicants are also encouraged to obtain experience where they are directly involved in the providing of health care. The Biology Department collaborates with Chattanooga's Erlanger Medical Center in a premedical preceptorship program. This program provides the opportunity for upper division pre-medical students to shadow resident physicians in the hospital for up to 24-hour periods.

The applicant is required to have taken the new Medical College Admission Test (MCAT) prior to consideration by the admissions committee. This exam is administered twice a year—in August and April. Application for the exam is made through the Counseling and Testing Center one month before the exam is scheduled. For entrance into medical school following graduation, the student should plan on taking the MCAT in April of the junior year. All of the above required science courses should be completed by this time to insure maximum performance on the MCAT exam. The exam may be retaken in August of the senior year.

Once or twice each year representatives from LLU and other schools of medicine visit the campus to interview prospective students. Premedical students are encouraged to make appointments to speak with them.

Most medical schools are members of the American Medical College Application Service (AMCAS). Applications must be submitted through this service. The AMCAS application may be obtained from the Counseling and Testing Office or directly from AMCAS and should be sent directly to AMCAS between June 16 and November 1 for entry in the summer of the following year.

American Medical College Application Service
1176 Massachusetts Avenue, N.W.
Washington, DC 20036-1989

After receiving the applications from AMCAS, the admissions office of the medical school reviews the candidates and determines whether or not supplementary information is needed.

Medical schools usually require a letter of recommendation from the pre-professional recommendation committee of the applicant's undergraduate college. Senior pre-medical students are asked to provide the names and addresses of all medical schools to which they are applying to the Vice President for Academic Administration's office before October 1.

Following a careful evaluation of the supplementary application and letters of recommendation submitted to the admissions office, selected applicants may be invited for a personal interview by the medical school.

OPTOMETRY

Adviser: Ken Caviness

The admission requirements to colleges of optometry vary, so the student should follow the catalog from the school of his/her choice. However, all place emphasis on biology, chemistry, mathematics and physics. Additional courses in the areas of fine arts, language, literature, and the social sciences are usually necessary.

A minimum of two years of preoptometric study is required. However, additional study increases the prospects of acceptance into professional training.

Following is a list of preoptometry courses required by most schools:

| | |
|------------------------------------|----------|
| BIOL 151-152, 415, 418 | 18 hours |
| CHEM 151-152, 311, 314 | 14 hours |
| ENGL 101-102 | 6 hours |
| MATH 120, 121, 181, 182, 215 | 15 hours |
| PHYS 211-212, 213-214 | 8 hours |
| PSYC 124 | 3 hours |

Direct individual inquiries are welcomed by the American Optometric Association, Division of Education and Manpower, 243 North Lindbergh Blvd., St. Louis, MO 63141.

OSTEOPATHIC MEDICINE

Adviser: Joyce Azevedo, Ann Foster, Keith Snyder

An alternative to allopathic medical schools, which grant the M.D. degree, are the osteopathic medical schools whose graduates receive the D.O. degree.

Many Seventh-day Adventists have attended the University of Health Sciences, College of Osteopathic Medicine in Kansas City, Missouri, one of fifteen osteopathic medical colleges in this country.

Requirements for admission are similar to those for allopathic medical schools such as Loma Linda University School of Medicine. Students apply to schools of osteopathic medicine through the American Association of Colleges of Osteopathic Medicine Application Service. Application packets may be obtained by writing to:

American Association of Colleges of
Osteopathic Medicine Application Services
6110 Executive Blvd., Suite 405
Rockville, MD 20852-3991
Phone: (301) 468-0990

For a reasonable chance of acceptance, a minimum grade point average of 3.00 should be maintained in both science and non-science subjects.

PHARMACY

Adviser: Sterling Sigsworth

The bachelor's degree program in pharmacy normally requires five years, the first two years of which may be taken at Southern College.

Admission requirements to colleges of pharmacy are somewhat variable so the student should consult the catalog of the school of his/her choice for specific course recommendations.

Minimum admission requirements to the University of Tennessee College of Pharmacy at Memphis are:

| | |
|--------------------------------------|----------|
| ACCT 221 | 3 hours |
| BIOL 151-152 | 8 hours |
| CHEM 151-152, 311-312, 313-314 | 16 hours |
| ENGL 101-102 | 6 hours |
| MATH 181 | 3 hours |
| PHYS 211-212, 213-214 | 8 hours |

Additional requirements include:

| | |
|--|---------|
| Literature or Foreign Language | 4 hours |
| Social Sciences: | |
| Psychology | 2 hours |
| Other (to include Economics, Political Science, Sociology, History, etc.) | 8 hours |
| Speech | 3 hours |
| Electives | 8 hours |

A minimum grade of C must be obtained for each required pre-pharmacy class. A higher grade point average will increase the chance of acceptance into pharmacy school. In addition, a satisfactory score must be achieved on the National Pharmacy College Admission Test.

PODIATRIC MEDICINE:

Adviser: Stephen A. Nyirady

An alternative to allopathic (M.D.) and osteopathic (D.O.) medical schools are the podiatric medical schools whose graduates receive the D.P.M. degree. Doctors of podiatric medicine are physicians trained in the medical and surgical treatment of the human foot and ankle.

To gain acceptance to a school of Podiatric Medicine, a bachelor's degree is highly desirable. Preprofessional coursework, with a minimum of 90 semester hours, is required of all students. Applicants are required to take the Medical College Admission Test (MCAT). In addition, most D.P.M. schools require the same prerequisite science classes as the M.D. and D.O. schools.

There are seven colleges of podiatric medicine, six of which participate in the American Association of Colleges of Podiatric Medicine Application Service (AACPMAS). The six schools in the AACPMAS are located in

California, Florida, Illinois, Iowa, Ohio, and Pennsylvania. An application packet can be obtained by writing or calling:

AACPMAS
 1350 Piccard Drive, Suite 322
 Rockville, MD 20850-4307
 1-800-922-9266
 (301) 990-7400

VETERINARY MEDICINE

Adviser: Stephen A. Nyirady

Competition for admission to colleges of veterinary medicine is keen. Consequently, most successful applicants have completed a degree rather than the minimum requirements listed below. It should also be noted that it is difficult to be accepted in any veterinary institution other than the school in the state where the applicant resides.

The applicant must make a satisfactory score on the Veterinary College Admission Test (VCAT) in addition to meeting grade point average and personal qualifications for admission. Professional training involves four years of veterinary school beyond college.

Minimum admission requirements to the University of Tennessee College of Veterinary Medicine in Knoxville are:

| | |
|---|----------|
| BIOL 151-152, 316, 412 | 15 hours |
| CHEM 151-152, 311-312, 313-314, 323 | 20 hours |
| ENGL 101-102 | 6 hours |
| PHYS 211-212, 213-214 | 8 hours |

Additional requirements include:

| | |
|--------------------------------------|----------|
| Humanities and Social Sciences | 18 hours |
|--------------------------------------|----------|

Admission requirements will vary between veterinary schools; therefore, it is recommended that the pre-veterinary student work closely with his/her adviser in assuring that the specific requirements for the schools of his/her choice are met.

| | | | | |
|---------------------------|---------|----------|---------|---------|
| Books and School Supplies | 274 | 545 | 274 | 545 |
| Total Estimated Costs* | \$5,748 | \$13,485 | \$4,852 | \$9,704 |

(Health insurance, automobile parking, and Campus Shop personal purchases are in addition, if applicable.)

*With financial aid and/or labor, this total figure can be substantially reduced.

FAMILY REBATE

When two students from the same immediate family who have the same financial sponsor are enrolled at Southern College at the same time, they may receive a 5 percent discount on tuition. This also applies to married student couples. A 10 percent discount will be given when three or more students are enrolled at SC at the same time, and who have the same financial sponsor. This does not apply for summer classes.

Chair: Timothy D. Korson
Associate Director: Dalton Athey
Researcher: Jared Bruckner

Associate Director: Dalton Athey

Researcher: Jared Bruckner

The STC is separate from the Computer Science and Technology Department and does not offer formal classes, but its faculty may hold a joint appointment in the academic unit under whose auspices students may receive credit for approved activities.

The STC also offers motivated students employment opportunities to work with the latest computer equipment and to interact with professors and major corporations involved in research in emerging software technologies.

FINANCIAL POLICIES

EXPENSES

FINANCIAL BUDGET AND CAMPUS EMPLOYMENT

Southern College tries to give every student the opportunity to obtain a Christian education. Every effort will be made to assist students in meeting their financial obligation in order to reach this goal.

The Student Finance Office will assist students in their financial planning. Financial aid is available to qualified recipients in the form of grants, loans, scholarships and employment (see pages 245-249). Before registering each new and/or transfer student must have on file a valid Payment Contract signed by both student and financial sponsor indicating how college expenses will be paid.

Information on student costs and means of paying those costs is given below to assist the student in financial planning.

STUDENT COSTS

Tuition.1996-97:

Students taking 1-11 semester hours will be charged at a rate of \$389 per semester hour. Students taking 12-16 semester hours will be charged \$4,578. Additional hours will be charged at the rate of \$291 per semester hour. Summer school tuition for 1996 will be charged at the rate of \$291 per semester hour. Payment for each summer school session is required in full at time of registration.

ESTIMATED STUDENT BUDGET

| | Residence Hall Student | | Non-residence Hall Student | |
|------------------------------|---------------------------|------------|-------------------------------|------------|
| | Semester | Year | Semester | Year |
| Tuition (12-16 hrs/semester) | \$4,578 | \$9,156 | \$4,578 | \$9,156 |
| Residence Hall Rent | 810 | 1,620 | | |
| Food (\$270 monthly average | | | | |
| Monthly minimum charge \$85) | 1,081 | 2,162 | | |
| Books and School Supplies | <u>274</u> | <u>548</u> | <u>274</u> | <u>548</u> |
| Total Estimated Costs* | \$6,743 | \$13,486 | \$4,852 | \$9,704 |

(Health insurance, automobile parking, and Campus Shop personal purchases are in addition, if applicable.)

*With financial aid and/or labor, this total figure can be substantially reduced.

FAMILY REBATE

When two students from the same immediate family who have the same financial sponsor are enrolled at Southern College at the same time, they may receive a 5 percent discount on tuition. This also applies to married student couples. A 10 percent discount will be given when three or more students are enrolled at SC at the same time, and who have the same financial sponsor. This does not apply for summer classes.

When two students are enrolled at SC from the same immediate family who have the same financial sponsor, and one is a Student Missionary/Task Force Worker and is enrolled in the 12 hours Christian Service course, the Student Missionary/Task Force Worker will not receive an additional discount; however, the brother or sister who is enrolled at Southern will receive a 5 percent tuition discount. If the Student Missionary/Task Force Worker is not enrolled in the 12 hours Christian Service course, no discount will be given to the sibling enrolled on the SC campus.

When three or more students are enrolled at SC from the same immediate family who have the same financial sponsor, and one is a Student Missionary/Task Force Worker and is enrolled in the 12 hours Christian Service course, the Student Missionary/Task Force Worker will not receive an additional discount; however the students who are enrolled at Southern will receive a 10 percent tuition discount. If the Student Missionary/Task Force Worker is not enrolled in the 12 hours Christian Service course, a 5 percent tuition discount will be given to the siblings enrolled on the SC campus.

MUSIC LESSON FEES PER SEMESTER

Music majors who are currently enrolled in or have completed MUCT 111-112 and 121-122, and who have been accepted to receive credit for a Concentration, pay only one fee per semester to cover all private lessons.

With credit: **\$134.00 plus tuition**

A student will receive 14 lessons per semester.

Without credit: **\$180.00**

A student will receive 14 half-hour lessons per semester.

Without credit: **\$360.00**

A student will receive 14 one-hour lessons per semester.

Music lesson fee refunds are calculated on the basis of the number of lessons taken during the first four weeks of the semester, after which no refunds are granted. Students taking lessons with or without credit must submit a Change of Class form to the Records Office at the time the lessons are discontinued to be eligible for a refund.

Excused absences may be made up at the discretion of the teacher if previous arrangements have been made. Lessons falling on holidays or during vacations will not be made up unless this results in the student having fewer than 14 lessons for the semester.

SPECIAL FEES AND CHARGES

The following special fees and charges* are assessed separately inasmuch as they may not apply to all students nor do they occur regularly:

| | |
|--|------------------|
| Application for admission (not refundable) | \$20.00 |
| Audit tuition | 1/2 reg. tuition |
| Automobile parking fee (per semester): | |
| Residence Halls | \$36.00 |
| Village | \$26.00 |
| Motorcycle parking fee | \$26.00 |
| Cancellation of registration | \$50.00 |
| Change of program | \$12.00 |

Credit by examination (per hour) recording fee \$35.00
 Examinations:

Challenge or waiver \$48.00
 CLEP \$40.00

Rescheduling midterm or final \$63.00

Incomplete grade recorded \$7.50

Insufficient funds check fee and penalty \$18.00

****Insurance:**

Student \$351.00

Spouse \$1,162.00

All Children \$922.00

Late Registration \$35.00

Late return of organizational uniform \$20.00

(The full cost will be charged if irreparably damaged or not returned.)

Lost residence hall key or replacement:

Talge Hall \$25.00

Thatcher Hall \$25.00

Lost student I.D. or replacement (**must pay cash**) \$5.00

Medical Technology recording fee (senior year) \$55.00

*****Nursing education fees:**

Associate degree (per semester) \$310.00

Baccalaureate degree (per nursing semester hour after
 completing Associate degree) \$13.00

Packing and Moving Fee \$50.00

Registration Fee (processing documents) (\$40 per semester) \$80.00

Transcript Fee — Same Day Service \$5.00

*See individual class descriptions for class fees and charges.

**An annual fee that is subject to change by insurance company.

***Declared nursing majors enrolled in a nursing class.

STATEMENT CHARGES

The following items may be charged to the student's account:

a. Books and required school supplies (required school supplies limited to \$85 per semester).

b. Private music instruction. Enrollment for all music instruction must be made through the Admissions Office for a full semester whether or not credit is desired. One semester hour of private music instruction consists of fourteen half hour lessons. Refunds will be granted only when the instructor is not available for lessons.

HOUSING

Residence Hall Costs

Residence hall accommodations for single students cost \$1,620 for the eight-month school year and are charged on a semester basis in August and January. Room charges are based on two students occupying one room. A student may, upon application to the residence hall dean, be allowed to room alone at an additional cost of \$335 per semester if sufficient rooms are available and s/he has approval from the Student Finance Office. It is the student's responsibility to have arranged for a roommate unless specific arrangements have been made to room alone. No pets are allowed in the residence halls.

No refunds are made for vacation periods or absences from the campus. When a student withdraws, a prorated portion of the semester charge, beginning with the date of nonoccupancy of the room, will be refunded.

Residence Hall Deposit

A room cleaning deposit of \$150 is required of each resident. To guarantee a room in the residence hall, payment must be made by July 1. After July 1, no room is held for a student whose deposit has not been paid. This deposit should be sent directly to Southern College and is held in reserve until the student graduates and/or permanently moves out of the residence hall. The deposit is in addition to any other payment.

Apartment

College-owned apartments may be rented by married students taking a minimum of six hours each semester. The apartments range in size from two to six rooms and are rented furnished or unfurnished. Rents range from \$262 to \$355 per month. Rent is paid in advance and begins when the key is issued. Charges are based on the date of issue and return of keys and proper clearance with the office of the Vice President for Financial Administration. No pets or firearms are allowed in college housing.

Apartment Deposit

Married students and single students over 23 years of age renting an apartment from the college pay a housing deposit of \$250 to reserve an apartment.

For students residing in any residence hall or married student housing, a housing deposit is due before occupancy and is sent directly to Southern College. This is in addition to any other payment.

Housing Deposit Refund

If a student gives notice before August 1 that s/he will not be attending, the housing deposit will be refunded. Damage or cleaning charges may also be charged to the student's account if the deposit is insufficient to cover these costs. The Housekeeping Supervisor at the Service Department will determine if the apartment has been left clean and undamaged. A packing and moving fee may be charged as necessary.

FOOD SERVICE

The cafeteria plan of boarding allows the residence hall student the privilege of choosing food and paying for what is selected. Students are encouraged to eat healthfully by eating at the cafeteria or the Campus Kitchen where balanced meals are provided. Residents will be charged a minimum of \$85 per month which will be prorated for vacations and holidays. No minimum charge is made during the summer months.

INTERNATIONAL STUDENT DEPOSIT

In addition to the regular college costs, international students must provide an International Student Deposit of \$3,000 U.S. This applies to all international students except documented permanent residents of the U.S. or residents of Canada. The deposit must be received by the Accounting Office before a U.S. Immigration Form I-20 is sent to the prospective student for entry to the U.S. Because mail service from many foreign countries takes time, this deposit should be sent six weeks prior to enrollment. This deposit, paid once, remains untouched (with interest paid at the rate of 2 percent less than prime, based on the prime rate at the time of deposit) until the student completes studies here, decides to go elsewhere, or gets into financial difficulty at which time the international

deposit will be applied to the student's account. If there remains a credit balance, the deposit will be refunded after the final statement is issued.

Deposit Reduction or Waiver: If the parent of the international student is employed full time by an organization that provides educational assistance, consideration may be given to reducing or waiving the deposit, based on the amount of assistance provided as confirmed in writing by the employer.

NURSING STUDENT DEPOSIT

Upon acceptance to the clinical nursing program, students are required to send an advance payment of \$310 to hold their placement in the class. This payment also serves as the first semester's Nursing Education Associate Degree Fee. The \$310 fee is in addition to the monthly payment chosen. There is also a \$310 fee charged to the A.S. nursing student's account second semester. If a student applies for the nursing program but does not attend the college or changes to a different major, the deposit is refundable if the Department of Nursing is notified by August 1. After August 1, the nursing deposit is not refundable.

ADVENTIST COLLEGES ABROAD FINANCIAL POLICY

Students wishing to apply for study abroad under the Adventist Colleges Abroad (ACA) program must follow the procedures listed below:

1. Obtain an ACA application from Southern College's Admissions Office.
2. Complete and return the ACA application, along with a \$100 application fee, to the SC Admissions Office.
3. Follow one of the following payment plans:
 - a. Pay the total amount of tuition, room, board, hospital and accident insurance, personal account deposit, and tour deposit of chosen school by August 1.
 - b. Semester System: Pay one-half of the total charges and tour charge by August 1. The remaining one-half must be paid by November 1.
 - c. Quarter System: Pay one-third of the total charges and tour charge by August 1; one-third by November 1; and the remaining one-third by February 1.
4. Make all payments by cash, cashier's check, money order, or credit card.

No college funded scholarships will be awarded to ACA students. When planning their finances for the ACA program students must:

1. Have a current account at Southern College
2. Have completed all necessary paper work for federal financial assistance and received a financial aid award letter before August 1
3. Subtract tuition assistance or federal financial aid from the total ACA charges due
4. Pay SC for charges before the college will make payment to ACA.

METHODS OF PAYMENT

All students may need to choose one of the methods of payment below:

Payment Plan I—Cash in Advance. When the total estimated charges for tuition (minimum 6 hours), room, and board for a semester are paid in cash at registration, a discount of 3 percent for the semester or 5 percent for the year is allowed on this cash payment. Amounts paid as a result of student loans, grants, or scholarships are excluded from the amount on which the discount is allowed. Students choosing to pay cash in advance

must on or before registration, pay the full amount required by the plan for the semester or year, less any credits.

The following schedule outlines how *Payment Plan I* would work for both a semester and the year:

| | Residence Hall Student | | Non-residence Hall Student | |
|---|---------------------------|-----------------|-------------------------------|----------------|
| | Semester | Year | Semester | Year |
| Total estimated charges (see Estimated Student Budget) | \$6,743 | \$13,486 | \$4,852 | \$9,704 |
| *(a) Less cash discount (3% for semester) | -202 | | -146 | |
| or | | | | |
| *(b) Less cash discount (5% for year) | | -674 | | -485 |
| Net cash due at registration | <u>\$6,541</u> | <u>\$12,812</u> | <u>\$4,706</u> | <u>\$9,219</u> |

Note: For calculating the discount, estimated charges may be reduced by approved financial aid and scholarship awards (excluding student wages). Cash discount applies to the cash paid at registration.

Payment Plan II—Tuition Guaranteed Plan. The college will guarantee to the student that tuition will remain constant under the following provisions:

1. This plan is not available to students receiving financial aid. However, parents taking a Parent Plus Loan may include this amount in their payment.
2. The tuition rate in effect at the time of the first contract (including beginning 2nd semester) will remain in effect until the student graduates. The student must maintain full-time continuous registration, not to exceed four years, excluding a one-year leave of absence which may be given for student missionaries, ACA, or task force workers. This plan is not applicable to summer school.
3. Total estimated cost for the year must be paid prior to or at fall registration.
4. Any cash withdrawals, except student earnings, will void the contract.
5. Participants in this plan are eligible for a 5 percent cash discount on the total estimated cost the first year of participation only (calculated as in Payment Plan I). For the next three years, the tuition rate will remain the same as year one; and a 5 percent discount will be given on room, board, and books only.
6. Dependents of denominational workers may deduct the denominational tuition assistance when making their payment; however, the tuition assistance must be received by the college from either the denominational employer or the denominational worker within two months after registration or the contract is void.
7. Student earnings may be withdrawn from the student's account and will not reduce the amount to be paid.
8. Costs in excess of the total estimated amount to be paid will be billed monthly and should be paid on a monthly basis or the contract is void.
9. Should the estimated cost be less than the amount paid, the credit will be refunded after June 1.
10. If the Payment Contract is broken for any of the above reasons, or the student withdraws during the school year, the student who re-enters Payment Plan II may do so based on the new year's rates of enrollment.

This plan only guarantees the tuition rate—not the room, board, books, and other miscellaneous charges. The student/financial sponsor must pre-pay each year the total estimated costs.

Payment Plan III—Contract for Monthly Payments. Students and/or parents desiring to pay educational expenses in installments on a monthly basis may choose from the following monthly options offered through Tuition Management Systems (TMS). With these monthly payment options, the annual expenses can be spread over 12, 11, 10, 9, or 8 equal monthly payments. These monthly payment options begin as indicated below, and all end April 1.

| <u>Monthly Payment Plan</u> | <u>Payments Begin/End</u> | <u>Additional Payment Due By Registration</u> |
|---------------------------------|---------------------------|---|
| 12-month | May 1 - April 1 | \$ None |
| 11-month | June 1 - April 1 | 500 |
| 10-month | July 1 - April 1 | 1,000 |
| 9-month | August 1 - April 1 | 1,500 |
| 8-month** | ** through April 1 | 2,000 |

**The first payment on the 8-month plan is due prior to registering for classes on August 26 and 27, in addition to the \$2,000 advance payment.

TMS will supply enrollment information to all enrolled and accepted students. For further information, call their toll free number 1-800-722-4867 or the Student Finance Office. There is no additional cost for this payment plan program.

Monthly statements will be issued 5 to 7 working days after the last day of the month. Cafeteria charges are through the last day of each month.

When calculating the monthly payment to TMS, federal aid, grants, scholarships, and/or tuition assistance from parents' employer may be deducted. Students planning to enroll for fewer than six hours are required to pay their tuition in full prior to registration.

Payment for summer school sessions is required at time of registration.

Before semester examinations may be taken, or before registering for a new semester, monthly payments must be current according to the payment plan for which the student has signed up.

TUITION ASSISTANCE

Prior to fall registration, an information packet is sent to the parent/financial sponsor of all accepted students. A form is included in this packet for those who qualify for tuition assistance from their employer. If a parent/student is eligible for this, the form should be completed and returned to Southern College. The Accounting Office will then bill for this tuition assistance in September, for first semester, and in February for second semester. It is the obligation of the parent/financial sponsor to be sure the tuition assistance is paid on a timely basis.

INTEREST ON PAST-DUE BALANCE

If a past due balance on the March statement is not paid by April 20, a service charge of 8 percent of the past-due amount will be applied to the April statement. A monthly service charge of 1 percent will be charged on any past due balance for the months of May, June, July, and August.

COLLECTION POLICY

Students completing or terminating their studies with the college are required to make arrangements for payment of unpaid accounts prior to leaving by signing a promissory note. Payments due on noncurrent accounts that are not received by the last working day of the month will be charged a 1 percent per month service charge.

When a student who was enrolled first semester does not enroll second semester and has left with an unpaid account, that account will be turned over to Southern College's Student Loan Services Office by January 15.

When a student leaves at the end of second semester who has not re-applied, the account will be turned over to the SC Student Loan Services Office by May 15.

When a student leaves at the end of second semester with an unpaid account who has reapplied for the following year, the student will have May through August to bring the account current. If the student decides not to return, then this account will be turned over to the SC Student Loan Services Office by September 15.

At the time any account is turned over to the SC Student Loan Services Office, a carrying charge of 1 percent per month will apply.

When a non-current account is 90 days past-due and neither payments nor communication have been received, and unsuccessful attempts have been made by the SC Student Loan Services Office to contact the individual, the account will be reported to a nationally recognized credit bureau, and will be submitted to a collection agency or attorney.

Since delinquent accounts are reported to the credit bureau systems, prompt payment of accounts builds credit ratings which will be important to the student in the future.

If the college deems it necessary to employ a collection agency or an attorney to collect defaulted accounts, all charges for these services, including court costs, if incurred, will be added to unpaid bills.

LEGAL PROCEEDINGS

Recognizing that former students owing money to Southern College involve themselves in various legal proceedings which can affect money owed to the college, the college has taken the position that no services will be rendered these individuals until court confirmation has been received confirming the legal actions taken.

BANKRUPTCY

Recognizing that the discharge of a debt through bankruptcy proceedings prohibits a creditor from subsequently pursuing the collection of the debt, the college, upon notification by the court of such discharge of a student's current school or loan account(s), complies with this legal prohibition. The bankruptcy of the financial sponsor in no way changes the underlying financial obligation of the student to pay his or her student account. No further services will be extended.

TRANSCRIPTS, DIPLOMAS, AND TEST SCORES

It is the policy of the college to withhold transcripts, diplomas, test scores, certificates of completion, and other records if a student has an unpaid or past-due account at the school, or any unpaid account for which the college has co-signed.

An official grade transcript will be issued for a currently enrolled student when the student's account is current according to the payment schedule set forth above. Exceptions may be considered to receive an official grade transcript when the account is current except for the disbursement of any Federal student loan for which eligibility has been established. A student's failure to comply with instructions can delay the release of a transcript.

Official grade transcripts for nonenrolled students will be issued when students' accounts are paid in full and when there are no delinquencies in the payment of student loans. No exceptions will be made.

When payment is made by personal check, the transcript will be held for 10 working days to allow the check to clear. To expedite the release of these documents, the student should send a money order or certified check to cover the balance of the account when requesting the documents. Under provisions of federal loan programs, Southern College withholds any records when payments for these loans become past due or are in default.

TUITION WAIVERS

Tuition waivers are available for internships, cooperative education, and practicum classes.

To be eligible for a tuition waiver students must be enrolled in fewer than 12 hours excluding their tuition waiver class, or more than 16 hours including their tuition waiver class. The waiver is calculated on the hours below 12 and above 16 resulting from the tuition waiver class.

Tuition waivers for classes involving tours, are calculated according to approved travel arrangements.

REFUND POLICIES

Complete Withdrawal from Classes

A student who withdraws from all school work during the semester will receive a tuition refund based on the date the completed withdrawal form with all the required signatures is filed with the Records Office. Music lesson refunds are calculated according to a separate policy as explained on page 228.

Tuition refunds are calculated as follows:

| | | | |
|----------|------|-----------|-----|
| 1st Week | 100% | 6th Week | 50% |
| 2nd Week | 90% | 7th Week | 40% |
| 3rd Week | 80% | 8th Week | 30% |
| 4th Week | 70% | 9th Week | 20% |
| 5th Week | 60% | 10th Week | 10% |
| | | 11th Week | 0% |

Partial Withdrawal

Refunds of tuition for semester hours dropped are made according to the date the drop form with all the required signatures is filed with the Records Office. Tuition refunds are calculated as follows:

First week of the semester — 100%

Second week through the tenth week — 10% less per week

No refunds after the tenth week

Shortened School Term (Summer or Other) Withdrawals and Changes

First two (2) school days — 100%

Third (3rd day through end of term) — Prorated through mid-term

CREDIT REFUND POLICY

Credit balances are refundable, upon request, 30 days after the monthly statement is received for the last month the student was in school in order to be certain that all charges have been processed. For example, if a student drops out of school in December, a full credit refund would not be made until after the January statement is prepared during the first week of February. When the credit balance is large, a portion may be refunded earlier upon request to the Disbursements Office.

If the student has received financial aid during the current semester, any credit balance will be credited to the aid funds, according to the Financial Aid Refund Policy (see page 244). Cash refunds will not be made to the student without authorization from the parent or financial sponsor.

HEALTH AND ACCIDENT INSURANCE

Southern College requires all students to be covered by health and accident insurance. Each student will automatically be enrolled in the college health and accident plan unless the s/he signs a waiver card at the time of registration indicating s/he does not want the college insurance because:

1. The student has other insurance equal to or better than the college insurance plan.
2. The student is covered under the SDA denominational health care plan.
3. The student does not live in college-owned housing and is taking less than six semester hours of classwork during the fall and spring semesters or less than three hours of classwork in the summer.

NON-LIABILITY FOR PERSONAL EFFECTS

When determining what to bring to campus, students should remember that the college is not responsible for the personal effects of any student even though such effects may be required by the college for student use, or required by the college to be stored in a designated location. College-carried insurance does not insure the personal effects of any individual. The college recommends that students consider carrying insurance to cover such losses.

WORKER'S COMPENSATION INSURANCE

As provided by the laws of the State of Tennessee, the college carries worker's compensation insurance to protect all employees in case of work-related accidents.

STUDENT BANKING SERVICE

When opening a student bank account, the student or financial sponsor may contact the Cashier's Office to make the proper arrangements. This is entirely separate from the student's school expense account. Withdrawals from this account may be made by the student in person as long as a credit

balance and proper identification are provided. If a check is deposited into this account, the student must wait two weeks for it to clear the banking system before a withdrawal may be made.

STUDENT PAYROLL AND CASH WITHDRAWALS POLICY

Employment is provided for students through the Personnel/Student Labor Office for the purpose of meeting their school expenses. Inquiries concerning student employment may be made by contacting that office at 423-238-3396.

Students may withdraw up to 25% of their earnings for tithe and personal items if their account is current, or if they have a credit on their account. (If students have chosen to have their tithe automatically withheld, they may withdraw up to 15% of their earnings.) Additional cash withdrawals may be made by exception:

1. Students who have sufficient financial aid to cover their tuition and books, who live out of the residence halls, and have a no-charge ID card may be allowed to withdraw all of their earnings for living expenses.
2. Students whose parents pay their accounts using Payment Plan I or II are allowed to withdraw all of their earnings with written permission from their parents.
3. Students under the Federal College Work-Study Program must follow federal guidelines for cash withdrawals from their accounts. They must contact their financial counselor for more information.

The payroll period normally covers a four-week time frame, with the cutoff date being 10-14 working days prior to the end of the month. Earnings will be credited to students' accounts when the monthly statements have run.

On-campus summer earnings should remain on the students' accounts to accumulate toward their advance payment.

No cash may be withdrawn until students have received their monthly statement (5-7 working days after the last day of the month). Students must bring their current monthly statement with them to the Student Finance Office.

CHECK CASHING

Students are encouraged to use their home banks or a local area bank for their personal financial services. The Cashier's Office will cash approved checks not to exceed \$300. No third party checks will be honored. Checks must be made payable to either the student or cash. Proper identification is required.

Each time a check is returned by a bank for insufficient funds, account closed, or any other reason, there will be an \$18 returned check fee made to the student's account. The student then forfeits the privilege of cashing future checks.

CREDIT CARDS

The Cashier's Office honors VISA, MasterCard, Discover, and American Express cards for making payments on a student's account. **No cash withdrawal service is available from these cards**—this service may be obtained from a local bank.

When using a credit card to pay on an account, the following information must be supplied: 1) name of credit card being used; 2) cardholder's name; 3) credit card number; and, 4) expiration date.

STUDENT LABOR REGULATIONS

Work opportunities are available in departments and industries operated by the college and at local private businesses. Students seeking employment should contact the Personnel/Student Employment office for a listing of available positions or to register their employment needs.

Although Southern College cannot guarantee a student employment, the College will endeavor to find a work opportunity either at the College or at a local business. Students are urged to arrange class schedules that allow "blocks" of time for work.

All hiring formalities are made in the Personnel/Student Employment Office. Students must bring their Social Security cards and one identification, e.g., passport, driver's license, or original birth certificate, in order to complete the hiring process legally. Students who are not American citizens must produce an unexpired employment authorization document such as a valid I-20 or other legal document before employment can be arranged.

Students are expected to maintain satisfactory job performance and meet all work appointments, including during examination week. Work superintendents reserve the right to dismiss students if their service and work records are unsatisfactory. Should a student find it necessary to be absent from work, s/he must make arrangements with the work superintendent and, if ill, with Student Health Service.

A student accepting employment is expected to retain it for the entire semester except in cases where changes are recommended by the school nurse or Personnel/Student Employment Office. Should a student receive opportunities for more favorable employment during a school term, the transfer must be made through the Personnel/Student Employment Office and the two employing departments. If a financial plan requires work, the student must NOT drop his/her work schedule without making proper arrangements with the Personnel/Student Employment Office. To do so may result in suspension from class attendance and invalidation of ID card until proper arrangements are made.

The student pay rate is not less than the current minimum wage rate. It may be higher if a student possesses special skills or training and shows responsibility and consistency.

Students who work more than 20 hours per individual week or who are enrolled for less than nine hours of credit will have Social Security taxes (FICA) withheld from their earnings.

Students may work off campus; however, permission may be withheld for off-campus employment that could be detrimental to a student's health or character development.

SUMMER WORK INCENTIVE PROGRAM

1. Work supervisors may recommend raises for a student's summer wage within the pre-set wage rate scale.
2. Two-thirds of the resident hall student's summer rent to be refunded, provided:
 - A. A minimum of 200 hours of summer work is completed.
 - B. The student is enrolled for at least six hours for the fall term.

3. Any variation to the above plan must be approved by the Administrative Council.

LABOR FOR FOREIGN STUDENTS

Foreign students on non-immigrant visas are required by law to secure permission before accepting any off-campus employment. Foreign students with student visas are allowed to work on campus up to twenty hours a week. Spouses may work only if they have student visas of their own or have immigrant visas.

STUDENT TITHING

Southern College encourages the payment of tithe and offerings by its student workers. In order to facilitate this practice, arrangements may be made by the student (except for those employed in the Federal Work-Study Program) to have 10 percent of his/her school earnings charged to his/her account as tithe and 2 percent for offerings. These funds are then transferred by the college to the treasurer of the Collegedale Seventh-day Adventist Church.

STUDENT MISSIONS PROGRAM/TASK FORCE POSITIONS

Any student desiring to serve as a Student Missionary or in a Task Force position needs to work with the Chaplain's Office. The General Conference policy requires the completion of the course, Student Missions Orientation Class, NOND 099, prior to placement in a volunteer position. The orientation class is taught the last nine weeks of the second semester. Students who register for NOND 099 will not receive any academic credit hours.

Those students who desire deferment on their student loan payments during their mission service placement must enroll in: NOND 227 Christian Service I, 6 hours, and NOND 228 Christian Service II, 6 hours.

To receive 12 hours of academic credit, the student must complete a full academic year of service. Students enrolled in NOND 227 and 228 must have taken NOND 099 as a prerequisite. A maximum of 12 hours is available during the year of service. Tuition is charged at 10 percent of the current rate. Specific details regarding academic assignments may be obtained from the Chaplain's Office.

Before final authorization may be obtained, all students going as Student Missionaries/Task Force workers must be cleared by the Student Finance Office and Student Loan Services. If a Student Missionary/Task Force Worker has a sibling attending Southern College, please see the section on "Family Rebate."

POST GRADUATE TUITION PLAN

A Post Graduate Tuition Plan has been established for the purpose of assisting students who have graduated from an accredited college/university and have an earned bachelor's degree. The plan allows eligible students to enroll in classes for one-half tuition. Tuition rates are as follows:

| | |
|--|-------------------|
| 1-11 Semester Hours | \$194.50 per hour |
| 12-16 Semester Hours | \$2,289.00 |
| 17+Hours (in excess of 16 hours) | \$145.50 per hour |

The provisions that apply are:

1. To be eligible for the Post Graduate Tuition Plan, a student must have graduated with a bachelor's degree at least two years before entering the program.
2. Applicants must have a clear financial SC account and all loan payments must be up-to-date at the time of registration before the Post Graduate Tuition Plan is approved. To continue to participate in the plan, students must reapply each semester. If a participant's account or loan payment becomes delinquent, that student will lose his/her Post Graduate Tuition Plan privileges and cannot be reinstated.
3. Regular readmission criteria apply to this program. Completed applications and other college transcripts must be on file in the Admissions Office no later than four weeks prior to the beginning of the semester for which the graduate is applying.
4. Students wishing financial aid must apply through the Student Finance Office.
5. This plan is applicable to classes where space is available and where the hiring of new faculty or staff is not required. The Post Graduate Tuition Plan does not include private music lessons, independent study, directed study, student teaching, internships, A.S. nursing, the fifth year of a five-year degree program, or a program where a tuition discount is already in effect.
6. Since the Post Graduate Tuition Plan offer is for tuition only, it does not apply to lab fees, surcharges for applicable courses, residence hall charges, books, or cafeteria charges.
7. This program is open to a limited number of students. Southern College reserves the right to discontinue or amend this special tuition offer at the discretion of the college administration.

SENIOR CITIZEN TUITION PLAN

Persons over 65 years of age may audit any regular college course free of charge, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may take classes for college credit at one-fourth the regular rate, provided there is space available and sufficient enrollment of students paying regular tuition to offer the class. Lab fees will be charged where required.

They may enroll in seminars, workshops, other courses offered outside the regular academic structure, and private lessons at full price.

FINANCIAL AID

Southern College provides financial aid for students in the form of loans, grants, scholarships, and employment. No applicant for financial aid will be denied assistance on the basis of sex, race, color, national origin, or ethnic group. The Student Finance Office follows established procedures and practices which will assure equitable and consistent treatment of all applicants.

Students are urged to contact the Student Finance Office, P.O. Box 370, Collegedale, Tennessee 37315-0370, (1-800-SOUTHERN), for information about and applications for financial aid. Federal Title IV Student Aid Funds

are not available at the Bayonet Point or L.W. Blake campuses. Applications received by March 1 will be given preference. Applications received after March 1 will be processed as long as time and funds permit.

General Requirements. Financial aid awards are made for one academic year to students who are accepted for admission and demonstrate a financial need. Recipients of government aid **must hold U.S. citizenship or a permanent resident visa.** (Visa documents must be submitted with aid application.) Students desiring aid **must** reapply each year, have a GED or high school diploma on file in the Records Office, and continue to make satisfactory academic progress toward a degree to receive financial aid.

WARNING: If a student purposely gives false or misleading information on the Federal Aid Application, s/he may be fined \$10,000, sent to prison, or both.

Academic Requirements. In order to be eligible for financial aid, recipients must maintain satisfactory academic progress toward a degree. (Satisfactory academic progress is defined in the following section.) If a student does not maintain satisfactory academic progress or fails to attend classes, prepare and submit required classwork, or take required examinations, financial aid will be suspended.

If a student whose financial aid has been suspended for any of the above reasons feels that unusual and unavoidable circumstances led to this suspension, the suspension may be appealed to the Academic Progress Committee. This policy is generally applied to financial aid from institutional and private sources as well as federal programs.

Financial Need Requirements. The financial aid program is administered in conjunction with the nationally-established policy and philosophy which is, that the **parents are the primary and responsible source for helping a student to meet his/her educational costs.** Financial aid is available to help fill the gap between the student's own resources (parental contribution, summer earnings, and savings) and the total cost of attending Southern College. The amount of parental contribution is based on the family's net income, number of dependents, allowable expenses, indebtedness, and assets. The Family Financial Need Analysis from the American College Testing Program is used in determining a student's eligibility for financial aid.

Exceptions to the financial need requirements are private scholarships awarded on the basis of academic achievement.

SOUTHERN COLLEGE ACADEMIC PROGRESS FOR FEDERAL AND INSTITUTIONAL STUDENT FINANCIAL AID

According to the 1986 Higher Education Amendments, all financial aid recipients must maintain satisfactory academic progress toward a degree, both in a qualitative and a quantitative measure, in order to continue to receive financial aid.

A financial aid recipient's progress at Southern College will be based on the student's **enrollment status** which is determined by the number of hours attempted. **Academic progress** will be measured by the number of hours the student has successfully completed during the semester.

A financial aid recipient will be expected to complete not less than the minimum hours required by his/her enrollment status of:

- | | |
|--------------|------------------|
| 1. Full time | 12 hours or more |
| 2. 3/4 time | 9-11 hours |
| 3. 1/2 time | 6-8 hours |

This would allow a student the equivalent of 10 full-time semesters to complete a four year degree; and the equivalent of six full-time semesters to complete a two year degree.

Classification of the full-time student for academic record keeping only is defined: Students enrolled for twelve or more semester hours and students in the last semester of their senior year who are taking all the courses required for graduation (but no fewer than eight semester hours) will be defined as full-time students.

Formula For Academic Progress

Enrollment status (as outlined above) x 12 hours (full-time equivalent) = hours needed for progress. **A student who fails to meet this formula will have until June 30 of the award year to successfully complete the required hours. No federal aid is available for make-up hours.**

For the purpose of this policy, a student must also maintain a cumulative and resident grade point average above the suspension levels as stated in the following schedules:

| <i>Cumulative Semester Hours</i> | <i>Required GPA Level (Includes Resident and Cumulative GPA)</i> |
|--------------------------------------|--|
| 6 - 48 | 1.50 |
| 49 - 64 | 1.65 |
| 65 - 80 | 1.75 |
| 81 - 93 | 1.85 |
| 94 - 119 | 1.95 |
| 120 up | 2.00 |

A student's financial aid will be suspended if s/he does not maintain satisfactory academic progress as set forth above.

Financial Aid Probation Policy

- Students who fail to maintain "satisfactory academic progress" will be placed on financial aid probation the following semester. The recipient must see a financial aid counselor before aid will be released for the probationary semester. This aid is subject to adjustment or cancellation.
- A minimum Southern College and cumulative GPA as listed in the requirements above must be attained by the end of the probation semester or financial aid will be suspended.

Procedure for Appeal and Reinstatement of Financial Aid

Students may submit a written appeal to the Academic Progress Committee describing the circumstances which contributed to their failure to make academic progress. This appeal must also include an outlined program of commitment to meet measurable satisfactory academic requirements.

When financial aid is suspended, a request for reinstatement may be made when the student has completed a minimum of 12 additional semester hours and has met the satisfactory academic requirements.

Provisions for Transfer Students

Financial aid for students transferring from other institutions will be determined by their academic standing, which will be calculated on all hours they have attempted. Students with a GPA below the policy stated above will be on financial aid probation, provided that they were eligible for continuing aid at the institution from which they transferred. Deletion of transfer hours from Southern College academic records may affect a student's financial aid eligibility depending on the number of hours deleted. Any change in academic program such as from a bachelor to associate or from associate to a one-year certificate degree may affect a student's eligibility for financial aid.

If financial aid has been suspended at the previous institution, the student must follow Southern College's procedure for appeal and reinstatement of financial aid.

Provisions for Transient Students

Financial aid for transient students is available when a student receives a transient letter.

Eligibility for Federal Pell Grant, Federal Family Education Loans (Stafford, Unsubsidized Stafford, Parent PLUS) will be based on total hours enrolled at both institutions. Costs at both institutions will be a factor in determining eligibility.

Eligibility for Southern College funds is based upon the number of hours being taken on the Southern College campus.

FINANCIAL AID APPLICATION PROCEDURES

To apply for all types of financial aid, the following documents must be submitted annually for the federal, state, and institutional aid programs:

1. The Free Application for Federal Student Aid (FAFSA).
2. The Southern College application for financial aid (Form B).
3. Southern College Admissions application.
4. The financial aid transcript (required only of students who attended other colleges or universities before coming to Southern College).
5. Copies of parents' income tax return (exact signed copies of all schedules and W-2 forms sent to IRS).
6. Copies of student income tax return including W-2 forms.
7. Guaranteed Student Loan applications from hometown lender. (Southern College has arranged for last-resort lenders for students whose hometown lenders do not participate in the GSL program or for any reason refuse to make the loan).

Applications are available in January of each year and may be obtained by contacting Southern College Student Finance Office. Students are urged to complete applications as early as possible after the family income tax returns have been completed. Income tax returns only have to be completed, not necessarily mailed to the IRS before submitting the financial aid application. Some students who were enrolled the previous year may receive a preprinted Federal Aid Renewal Application.

Financial Aid Award Procedures

An Offer of Financial Aid will be sent to each applicant after Southern College's Student Finance Office receives the results from the federal processor. To confirm and reserve the funds offered, the student must return the signed acceptance of the offer within **ten days** of receipt.

Financial aid awards are made on a rolling basis, as long as funds are available, with the neediest students receiving priority of funds. The financial aid award package will usually consist of: 1) work, 2) loan, 3) grant or scholarship.

Disbursement of Financial Aid Funds

Financial aid awards are disbursed equally each semester. To have funds released to statements, students must sign vouchers, and other required documents at the Disbursement Office in Wright Hall. Funds cannot be credited to student statements until this procedure is followed.

Financial Aid Overawards

When financial aid recipients receive additional resources not included in the financial aid award letter, it is the student's responsibility to report these funds to the Student Finance Office. Federal regulations prohibit "overawards;" therefore, when the total of all resources exceeds the allowable student budget, financial aid awards must be adjusted. When financial aid funds have already been credited to the student's statement, any refunds due or overawards will be charged to the student's account.

STUDENT FINANCIAL AID REFUND AND REPAYMENT POLICIES

Financial Aid Refund Policy

The tuition refund policy for students withdrawing from classes is outlined on page 235.

Since financial aid is considered to be used first for direct educational costs (tuition, fees, room, board, and books), when a student withdraws from all classes and under the refund policy receives a refund of these charges, the refund will be used to reimburse financial aid credited to the student account. A refund must be determined based on Federal policy as well as the college policy, and refund to the student whichever amount is larger.

The amount that must be repaid to Federal Title IV funds and other financial aid is determined in the following manner:

All financial aid received is deducted from total charges for the period of enrollment to determine the Expected Cash Payment due from the student. Cash payments received are then deducted, and any remaining balance is the cash payment still due from the student.

After determining the cash payment still due, the tuition refund amount and any cash payment still due must be deducted from total charges. Total financial aid and cash payments received are then deducted to arrive at the amount that must be repaid to financial aid funds. (Examples of these calculations are available in the Student Finance Office).

According to Federal regulation, refunds due to Title IV programs must be allocated in the following manner:

1. Unsubsidized Stafford loans
2. Subsidized Stafford loans
3. Parent (PLUS) loans
4. Federal Perkins loans
5. Federal Pell Grant program
6. Federal SEOG program
7. Other Title IV programs
8. Any other Federal or State programs
9. Student/Parent.

Financial Aid Repayment Policy

There are specific repayment policies for students who withdraw and have received financial aid in excess of direct educational costs. An example would be the student who received a Stafford Loan and did not use the full amount for educational costs. A student owing a repayment to any federally funded student aid program cannot receive any type of federal student aid for future enrollment periods until repayments have been made.

VETERANS

Southern College is approved for the training of veterans as an accredited training institution. V.A. benefits are not available to students on the Orlando Campus, L. W. Blake Hospital, and Bayonet Point Medical Center, and may not be available for students enrolled in classes offered off the Collegedale campus. Those who qualify for educational benefits should contact the nearest Department of Veterans' Affairs.

Veterans or other eligible persons are required to attend classes in order to be eligible for educational benefits. Southern College is required to report promptly to the V.A. the last day of attendance when an eligible student withdraws or stops attending classes regularly.

A recipient may not receive benefits for any course that does not fulfill requirements for his/her stated degree and major. Audited courses, non-credit courses (except for a required remedial course), and correspondence work cannot be certified.

TYPES OF FINANCIAL AID

Scholarships

Southern College institutional scholarships are awarded from a variety of scholarship funds to students who have financial need, are achieving academically, and are working part time. These awards usually range from \$200 to \$1,000 per year depending upon the student's need and availability of funds.

The amount of a student's SC scholarship awards will be reduced by the amount the student receives from all sources that exceeds the total budgeted expenses for the school year. Scholarship funds will not be applied to certain extra-curricular expenses. If the student's grade point average (GPA) falls below the required level, the SC scholarship will be deferred or canceled. Any requests for exceptions should be addressed to the Financial Appeals Committee.

The following scholarships are awarded to eligible students regardless of financial need:

ACADEMIC SCHOLARSHIPS are awarded to incoming freshmen who graduate with a 3.50 or higher GPA from academies or secondary schools, are recommended by their faculty, and enroll at Southern College for a minimum of twelve semester hours.

For those incoming freshmen students who have a high school GPA of 3.85 or above and an ACT composite score of 28 or above, a high academic scholarship of \$6,500 over four years is available. Two thousand dollars will be awarded the first year at SC and \$1,500 for each of the following three years. The student must maintain an SC GPA of 3.50 and carry not less than 14 semester hours of class work each semester enrolled.

ACT SCHOLARSHIPS — Incoming freshmen with a composite score of 26-30 are eligible for a \$700 award if they maintain a college GPA of 3.00 each semester of the first year they are enrolled at Southern College. Incoming freshmen with a composite score of 31-36 are eligible for an \$850 award if they maintain a college GPA of 3.25 each semester of the first year they are enrolled at Southern College. Students must enroll at Southern College for a minimum of twelve semester hours.

CHURCH AND/OR CONFERENCE MATCHING PLAN — Southern College will participate in a matching plan, matching one-third of the total scholarship funds received from a church or conference. The student must be enrolled for a minimum of 12 hours. Funds will not be matched for past-due accounts for prior years and will not exceed \$1,000 per student per year. The participating church and/or conference must complete and sign the matching application form certifying that their appropriation came from local church funds, not from the student, the student's parents or relatives, and is not for wages or pay for services rendered by the student. These forms may be obtained from the Student Finance Office.

LEADERSHIP SCHOLARSHIPS are awarded to incoming freshmen who have served as S.A. President, S.A. Vice-President, S.A. Spiritual Vice-President, Senior Class President, Yearbook Editor, and School Paper Editor, provided they enroll at Southern College for a minimum of twelve semester hours.

NATIONAL ACADEMIC RECOGNITION AWARDS are awarded to finalists in the National Merit contest. Finalists receive tuition-free scholarship for four continuous years at Southern College. They must maintain an SC GPA of 3.50 and enroll each semester for not less than 15 semester hours.

SOUTHERN SCHOLARS' SCHOLARSHIP — After completing one year in the honors program, Southern Scholars may receive a waiver for the cost of auditing one class each semester that they remain in the program. Upon successful completion of the program students will receive a tuition refund equivalent to four three-hour classes. The "per hour" rate for a 16-hour class load will be the basis for calculating the refund. Southern Scholars also receive a 100 percent tuition waiver for Honors Seminar, HMNT 451, 452, calculated according to the tuition waiver policy explained on page 235.

STUDENT MISSIONARY/TASK FORCE SCHOLARSHIPS — Students who were approved by Southern College to serve as Student Missionaries or Task Force Workers may upon the completion of a year of service apply for a \$1,500 scholarship through the Chaplain's Office if they are enrolled at SC for a minimum of 12 hours.

SUMMER CAMP SCHOLARSHIPS — Students participating in conference-sponsored summer camp programs will receive credit from Southern College for 50 percent of the net amount receipted to the student's statement upon enrollment of a minimum of 12 semester hours. Students participating in the John Hancock Center for Youth Ministry Inner City summer program will be provided scholarship assistance on the same basis as summer camp scholarship recipients. Funds will not be matched for past due accounts for prior years. Taxes may be withheld from these scholarship funds. It is the responsibility of the students to bring their camp checks to the Student Finance Office.

SUMMER LITERATURE SALES SCHOLARSHIPS — Students participating in the Summer Literature Sales Scholarships will receive credit from Southern College for 50 percent of the net amount receipted to the student's statement upon enrollment of a minimum of 12 semester hours. There is a matching cap of \$1,500 per student per year.

Grants

ENDOWMENT GRANT — These funds are awarded to students who have established financial need through the federal aid application process. Awards are made on funds available basis. Notification to eligible recipients will be made through the Offer of Financial Aid.

Eligibility and requirements for disbursement of Endowment funds are listed on the Offer of Financial Aid. Students should be aware that they must work the required number of hours in order to receive Endowment Grant funds.

FEDERAL PELL GRANT PROGRAM is a federal program which provides grant assistance directly to eligible first-degree undergraduate students. A student's eligibility for a Pell Grant is based on a congressionally-approved formula which considers family financial circumstances.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT — Limited funds are available to students with exceptional financial need.

STATE STUDENT INCENTIVE GRANTS — These grants are made possible from federal and state funds to the residents of Alaska, Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Jersey, Oklahoma, Pennsylvania, Rhode Island, Tennessee, Vermont, Washington, and West Virginia. Students should check with their states' grant agencies for additional information.

Loans

FEDERAL NURSING STUDENT LOANS are available to nursing students only. Repayment and five percent interest begins nine months after a student graduates, leaves school, drops below half-time enrollment, or drops from the nursing program.

FEDERAL PERKINS LOAN (formerly National Direct Student Loan) — Under this program students can borrow money from the federal government through the school. Repayment and five percent interest begin nine months after a student graduates, leaves school, or drops below half-time enrollment.

FEDERAL PLUS LOANS enable parents with good credit histories to borrow for each child who is enrolled at least half-time and is a dependent student. These loans, like Federal Stafford Loans, are made by a lender such as a bank, credit union, or savings and loan association. The yearly loan limit is students' cost of education minus any estimated financial aid they are eligible for.

For PLUS loans first disbursed on or after July 1, 1996, the interest rate will be variable, but not higher than 9 percent. From July 1, 1995, through June 30, 1996, the interest rate was 8.98 percent for parents who borrowed on or after October 1, 1992. Variable interest rates are set each June. For more information on their interest rate, parents should contact the organization that holds their loan. That organization will also notify the parents of later interest rate changes.

Students' parents will pay an "origination fee" of 3 percent of the loan principal. This amount must be deducted proportionately from each disbursement made. The lender may collect an insurance premium of up to 1 percent of the loan principal, which must also be deducted proportionately from each disbursement.

The procedure for applying is the same as for a Federal Stafford Loan. Note that the school can refuse to certify a loan application, or can certify a loan for an amount less than a student's parents would be eligible for.

For loans first disbursed on or after October 1, 1993, the lender must send the loan proceeds to your school in at least two payments. Payments will be sent either by electronic transfer or by check made co-payable to your school and your parents. No payment may exceed one-half of the loan amount.

Repayment begins within 60 days after the final loan disbursement. There is no "grace period" for these loans.

If a deferment (a postponement of repayment) applies (including a deferment for being in school), students' parents won't begin repaying any principal until the deferment ends. Deferments don't apply to interest, although the organization that holds the loan may let the interest accumulate until the deferment ends. Note, however, that the interest will be added to the principal, increasing the amount of principal that will need to be repaid.

FEDERAL STAFFORD LOANS are low-interest loans made to students attending school at least half-time. Loans are made by a lender such as a bank, credit union, or savings and loan association. These loans are insured by the guaranty agency in each state and reinsured by the federal government. A borrower must repay this loan.

Students may qualify for a "subsidized" Federal Stafford Loan, which is based on financial need. But, students can also get an "unsubsidized" Federal Stafford Loan regardless of need, that is, regardless of their or their family's income. It is possible for a student to have a Federal Stafford Loan partly based on financial need and partly not on need.

Dependent undergraduate students can borrow up to:

- \$2,625 if they are first-year students enrolled in a program of study that is a full **academic year**.
- \$3,500 if they have completed the first year of study and the remainder of their program is a full **academic year**.
- \$5,500 a year if they have completed two years of study and the remainder of the program is at least one **academic year**.

For periods of undergraduate study that are less than an **academic year**, the amounts one can borrow will be less than those above. Talk to a financial aid administrator to find out how much may be borrowed.

Independent undergraduates can borrow up to:

- \$6,625 if they are first-year students enrolled in a program of study that is a full **academic year**. (At least \$4,000 of this amount must be in **unsubsidized Stafford Loans**.)
- \$7,500 if they have completed the first year of study and the remainder of the program is a full **academic year**. (At least \$4,000 of this amount must be in **unsubsidized Stafford Loans**.)
- \$10,500 a year if they have completed two years of study and the remainder of their program is at least one **academic year**. (At least \$5,000 of this amount must be in **unsubsidized Stafford Loans**.)

For Associate Degrees, loans can only be borrowed up to the second year level.

The amounts given are the **maximums** that can be borrowed; however, students can't borrow more than the **cost of education** at Southern College minus any other financial aid they receive.

The total Stafford Loan debt one can have outstanding as a dependent undergraduate is \$23,000; as an independent undergraduate it is \$46,000.

Work

FEDERAL COLLEGE WORK-STUDY PROGRAM — Under the work-study program, the employer pays a small part of the student's wages, and the government pays the rest. Most work-study positions are on campus. Students can work part-time while they are in school; they can work full time during the summer and other vacation periods. The basic pay rate is usually the current minimum wage. This may vary depending on the skill and experience needed for the job.

OTHER GRANTS, LOANS, AND SCHOLARSHIPS

Grants, loans, and scholarships are available to students meeting the above requirements or having exceptional academic achievements. Details concerning amounts and qualifications for recipients of these funds can be obtained from the Student Finance Office.

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WSMC FM90.5

Gerald Peel, B.A. (1995) General Manager, WSMC FM90.5

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 Burt Pooley, M.B.A. (1992) Chief Accountant

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 Roy Dingle, B.S. (1974) Baker, Village Market
 Wayne Janzen, Ph.D. (1992) Manager, Southern Carton Industry
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 Larry Payne (1993) Production Manager, The College Press
 Jim Burrus (1993) Manager, Village Market
 Rita Wohlers (1987) Manager, Campus Shop

Information Services

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 Judy DeLay, B.A. (1982) Assistant Director
 William Estep (1979) Computer Operations Manager
 Clifford Williams, B.A. (1994) Computer Analyst/Programmer
 Merlin Wittenberg, M.Ed. (1984) Microcomputer Specialist

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 Donna Myers (1972) Assistant Director, Student Finance

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 Donald Hart, A.S. (1993) Associate Director, Campus Safety

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Midge Dunzweiler, M.S. (1993) Associate Director, Counseling

Health Service

Eleanor Hanson, R.N. (1966) Director, Health Service
David Winters, O.D. (1980) College Physician

Residence Halls

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Sharon Engel (1986) Dean of Women
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Stan Hobbs, M.Ed. (1985) Dean of Men
Kassandra Krause, A.S. (1987) Assistant Dean of Women
Dwight Magers, M.A. (1993) Associate Dean of Men
Dennis Negron, B.A. (1993) Assistant Dean of Men

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Dwight Herod, M.Div. (1995) Family Ministries Pastor
Ed Wright, D.Min. (1985) Pastor

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Laurel Wells, *Director Emerita of Student Finance*

INSTRUCTIONAL FACULTY

(Dates in parentheses indicate the beginning year of employment at Southern College.)

Carolyn Achata—M.S., Assistant Professor of Nursing

B.S., University of Miami; M.S.N., The University of Tennessee, Memphis. (1994)

Pamela Ahlfeld—M.S., Associate Professor of Nursing

B.S., Southern Missionary College; M.S., Georgia State University. (1990)

J. Bruce Ashton—D.M.A., Professor of Music

B.Mus., Capital University; M. Mus., American Conservatory of Music; D.M.A., University of Cincinnati. (1968)

Joyce L. Azevedo—Ph.D., Associate Professor of Biology

B.S., Union College; M.A. and Ph.D., University of California, Riverside. (1992)

Fern Babcock—M.A.T., Associate Professor of Education

B.L.A., Pakistan Adventist Seminary and College; M.A.T., Andrews University. (1991)

George Babcock—Ed.D., Professor of Education

B.A., Columbia Union College; M.A. and Ed.D., Andrews University. (1991)

Peggy Bennett—M.S.L.S., Director of Libraries, Associate Professor of Library Science

B.S. Southern Missionary College; M.S.L.S., Florida State University. (1971)

Jack Blanco—Th.D., Ellen G. White Professor of Religion

B.A., Union College; M.A. and B.D., SDA Theological Seminary; M.Th., Princeton Theological Seminary; Th.D., University of South Africa. (1983)

***Julie Boyd-Penner—M.Mus., Assistant Professor of Music**

B.Mus., University of Idaho; M.Mus., Eastman School of Music. (1993)

Jared Bruckner—D.Sc., Professor of Computer Science and Technology

B.A., Andrews University; M.S., Illinois Institute of Technology; M.S., Worcester Polytechnic Institute; D.Sc., University of Massachusetts at Lowell. (1995)

Ken Caviness—Ph.D., Associate Professor of Physics

B.S., Southern Missionary College; Ph.D., University of Massachusetts at Lowell. (1996)

Ron Clouzet—M.Div., Associate Professor of Religion

B.A., Loma Linda University, La Sierra; M.Div., Andrews University. (1993)

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Don Diek—Ph.D., Professor of Speech Communication

B.A., Union College; M.A., University of Nebraska; Ph.D., Michigan State University. (1968)

Alberto dos Santos—Ed.D., Professor of Education and Psychology

B.A., University of South Africa; Diploma, Orion Institute of Switzerland; M.A. and Ed.D., Andrews University. (1995)

Joan dos Santos—Assistant Professor of English

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*Study Leave

John Durichek—M.A., Associate Professor of Computer Science and Technology

B.S., Southern Missionary College; M.S., George Peabody College for Teachers. (1969)

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B.A., Walla Walla College; M.S.Ed., Ed.S., and M.Ed., University of Idaho, Moscow; Ed.D., Temple University; Ph.D., Union Institute. (1993)

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B.S., Southern Missionary College; M.A., Andrews University. (1988)

Richard Erickson—M.B.A., Associate Professor of Business Administration

B.S. and M.B.A., Austin Peay State University. (1984)

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B.S., Andrews University; M.Ed., University of Tennessee at Chattanooga. (1974)

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Diplome d'Etudes Superieures en Theologie, Institut Adventiste du Saleve, Collonges sous Saleve, France; Diplome Supérieur d'Etudes Francaises Modernes, Ecole Internationale de Langue et Civilisation Francaises, Paris; M.A.T., Andrews University. (1992)

Lisa Gano—M.Acct., C.P.A., Assistant Professor of Business

B.B.A., Southern College of Seventh-day Adventists; M.Acct., University of Tennessee, Knoxville. (1994)

Robert Garren—M.F.A., Professor of Art

B.S., Atlantic Union College; M.F.A., Rochester Institute of Technology. (1968)

Philip G. Garver—Ed.D., Professor of Physical Education

B.S., Southern Missionary College; M.S., Eastern Michigan University; Ed.D., University of Tennessee, Knoxville. (1976)

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B.M.E., La Sierra College; M.Mus.Ed., Madison State Teachers College. (1967)

Judith Glass—M.Mus., Professor of Music

B.Mus. and M.Mus., University of Texas at Austin. (1975)

Loranne Grace—M.L.S., Associate Professor of Library Science

B.S., Walla Walla College; M.L.S., University of Washington. (1970)

Jon Green—Ph.D., Professor of Education

B.A., La Sierra College; M.S., Loma Linda University; M.A., Andrews University; Ph.D., Georgia State University. (1989)

Floyd Greenleaf—Ph.D., Professor of History/Senior Vice President for Academic Administration

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Diploma in Theology, Newbold College; B.A., Southern Missionary College; M.A. and M.Div., Andrews University; Ph.D., University of Edinburgh. (1978)

***Richard Halterman—M.S., Associate Professor of Computer Science**

B.S., Florida Southern College; M.S., Florida Atlantic University. (1987)

Jan Haluska—Ph.D., Professor of English

B.S., Pacific Union College; M.A., Andrews University; Ph.D., University of Tennessee, Knoxville. (1981)

Lawrence E. Hanson—Ph.D., Professor of Mathematics

B.A., California State University; M.A., University of California; Ph.D., Florida State University. (1966)

Pamela Harris—Ph.D., Associate Professor of Journalism

B.A., Southern Missionary College; M.L.S., George Peabody College of Vanderbilt University; Ph.D., University of Tennessee, Knoxville. (1989)

Carole Haynes—Ed.D., Professor of Education

B.S., Southern Missionary College; M.Ed., University of Tennessee at Chattanooga; Ed.D., University of Tennessee, Knoxville. (1982)

Ray Hefferlin—Ph.D., Professor for International Research in Physics

B.A., Pacific Union College; Ph.D., California Institute of Technology. (1955)

Volker Henning—M.A., Associate Professor of Journalism

B.A., Southern Missionary College; M.Div., Andrews University; M.A., University of Central Florida. (1989)

Debbie Higgins—M.A., Assistant Professor of English

B.A., Columbia Union College; M.A., Andrews University. (1993)

Lorella Howard—M.S.N., Associate Professor of Nursing

B.S.N., Southern College of Seventh-day Adventists; M.S.N., Vanderbilt University. (1994)

†Dusanka Hristic—M.S.N., Assistant Professor of Nursing

B.S. and M.S.N., Loma Linda University. (1995)

Bonnie Hunt—M.S.N., Associate Professor of Nursing

B.S., Loma Linda University; M.S.N., University of Tennessee, Knoxville. (1974)

Constance Hunt—M.S., Assistant Professor of Nursing

B.S., Southern College of Seventh-day Adventists; M.S., Texas Woman's University. (1995)

Katy Hunt—M.S.L.S., Associate Professor of Library Science

B.S., Southern Missionary College; M.S.L.S., University of Tennessee, Knoxville. (1976)

Phil Hunt—Ed.D., Professor of Nursing

B.S., Southern College of Seventh-day Adventists; M.Ed., Columbia University; Ed.D., Andrews University. (1995)

***Bradley G. Hyde—M.S.C.S., Associate Professor of Computer Science**

B.A., Southern Missionary College; M.S.C.S., Maryland University. (1988)

Steven Jaecks—M.Ed., Associate Professor of Physical Education

B.A., Loma Linda University; M.Ed., University of Tennessee at Chattanooga. (1980)

Barbara James—M.S.N., Associate Professor of Nursing

B.S., Southern Missionary College; M.S.N., University of Texas at Arlington. (1991)

*Study Leave

†Orlando Campus

John Keyes—Ed.S., Associate Professor of English

B.A., Asbury College; M.A., Central Michigan University; M.A.T., Andrews University; M.L.S., Vanderbilt University; Ed.S., George Peabody College for Teachers. (1987)

Timothy Korson—Ph.D., Professor of Computer Science and Technology

B.A., Atlantic Union College; M.S., Ohio University; Ph.D., Georgia State University. (1995)

Henry Kuhlman—Ph.D., Professor of Physics

B.A., Emmanuel Missionary College; M.A., Western Michigan University; Ph.D., Purdue University. (1968)

Edward L. Lamb—M.S.S.W., A.C.S.W., Professor of Social Work and Family Studies

B.S., Union College; M.S.S.W., University of Tennessee, Knoxville. (1971)

Katie A. Lamb—M.S.N., Associate Professor of Nursing

B.S., Union College; M.S.N., University of Central Arkansas. (1972)

Donn Leatherman—M.Div., Associate Professor of Religion

B.Th., Canadian Union College; M.Div., Andrews University. (1992)

Merritt MacLafferty—M.A., Associate Professor of Computer Science

B.A., Union College; M.A., Pacific Union College. (1980)

Ben McArthur—Ph.D., Professor of History

B.A., Andrews University; M.A. and Ph.D., University of Chicago. (1979)

Caroline McArthur—M.S., Associate Professor of Nursing

B.S., University of Mississippi; M.S., Emory University. (1979)

Wilma McClarty—Ed.D., Professor of English

B.A. and M.A., Andrews University; Ed.D., University of Montana. (1972)

Robert Moore—Ed.D., Professor of Mathematics

B.A., Southern Missionary College; M.S., University of North Carolina; Ed.D., The University of Georgia. (1979)

Derek Morris—D. Min., Professor of Religion

B.A., Columbia Union College; M.Div. and D.Min., Andrews University; (1987)

Patricia C. Morrison—M.L.S., Associate Professor of Library Science/Assistant Librarian

B.S., East Carolina University; M.L.S., Vanderbilt University. (1981)

Heather Neal—B.A., Instructor of Health, Physical Education, and Recreation

B.A., Southern College of Seventh-day Adventists. (1995)

Bruce Norman—Ph.D., Associate Professor of Religion

B.A., Southern College of Seventh-day Adventists; M.A. and Ph.D., Andrews University. (1995)

Laura Nyirady—M.S.N., Associate Professor of Nursing

B.S., Loma Linda University; M.S.N., Boston University. (1986)

Stephen A. Nyirady—Ph.D., Professor of Biology

B.A., Atlantic Union College; M.S. and Ph.D., Loma Linda University. (1986)

Cliff Olson—M.A., Associate Professor of Business

B.A., University of Northern Colorado; M.A., Colorado State University. (1989)

Helmut K. Ott—Ed.D., Professor of Modern Languages

B.A., Loma Linda College of Arts and Sciences; M.A., Inter-American University; M.A. and Ed.D., Andrews University. (1971)

Mark Peach—Ph.D., Professor of History

B.A., Walla Walla College; M.A., Washington State University; Ph.D., University of Chicago. (1987)

John Perumal—Ph.D., Assistant Professor of Biology

B.A., Spicer Memorial College; M.S., University of Pune; Ph.D., The University of Western Ontario (1993)

Dennis Pettibone—Ph.D., Professor of History

B.A., La Sierra College; M.A., Loma Linda University; Ph.D., University of California, Riverside. (1988)

†Mildred Muniz Preussner—M.S.N., Associate Professor of Nursing

B.S., Antillian College; M.S.N., Catholic University of Puerto Rico. (1990)

Helen Pyke—M.A., Associate Professor of English

B.A., Walla Walla College; M.A., University of Tennessee at Chattanooga. (1990)

Dana Reed—M.S., Assistant Professor of Nursing

B.S., Southern College of Seventh-day Adventists; M.S., Texas Women's University. (1992)

Kenneth Reynolds—Instructor of Industrial Technology (1992)**Arthur Richert—Ph.D., Professor of Mathematics**

B.A., Southern Missionary College; M.A. and Ph.D., University of Texas. (1970)

MaryAnn Roberts—M.S.N., Associate Professor of Nursing

B.S. and M.S.N., Andrews University. (1992)

Marvin L. Robertson—Ph.D., Professor of Music

B.Mus., Walla Walla College; M.A., University of Northern Colorado; Ph.D., Florida State University. (1966)

Daniel Rozell—M.A., Associate Professor of Business Administration

B.S., Southern Missionary College; M.A., Central Michigan University. (1978)

Terrie Ruff—M.S.W., Assistant Professor of Social Work and Family Studies

B.S.W., Columbia College; M.S.W., University of South Carolina. (1990)

Adán Saldaña—M.A., Assistant Professor of Art

B.S., Southern Missionary College; M.A., Pratt Institute. (1994)

Vinita Sauder—M.B.A., Associate Professor of Business Administration**/Director of Institutional Effectiveness and Research**

B.A., Southern Missionary College; M.B.A., University of Tennessee at Chattanooga. (1983)

Jim Segar—M.A., Professor of Business Administration

B.A., Andrews University; M.A., Central Michigan University. (1993)

Sterling Sigsworth—Ph.D., Associate Professor of Chemistry

B.S., Ohio University; Ph.D., Pennsylvania State University. (1991)

Patricia Silver—M.A., Associate Professor of Music

B.S.C., Madison College; M.A., George Peabody. (1982)

David Smith—Ph.D., Professor of English

B.A. and M.A., Andrews University; Ph.D., University of Tennessee, Knoxville. (1981)

Keith Snyder—Ph.D., Professor of Biology

B.S. and M.S., Andrews University; Ph.D., Washington State University. (1995)

Shirley Spears—M.S., Associate Professor of Nursing

B.S., Southern Missionary College; M.S., University of Alabama at Birmingham. (1990)

†Orlando Faculty

Jean Springett—M.S., Associate Professor of Nursing

B.S., Columbia Union College; M.S., University of Maryland. (1991)

Carl Swafford—Ph.D., Associate Professor of Education

B.A., Southern Missionary College; M.S. and Ph.D., University of Tennessee at Knoxville. (1992)

Wayne E. VandeVere—Ph.D., C.P.A., Ruth McKee Professor of Entrepreneurship and Business Ethics

B.A., Andrews University; M.B.A., University of Michigan; Ph.D., Michigan State University. (1956)

Dale Walters—M.S., Associate Professor of Industrial Technology

B.S., Southern Missionary College; M.S., East Tennessee University. (1988)

Steven E. Warren—Ph.D., Professor of Chemistry

B.S., Andrews University; Ph.D., Arizona State University. (1982)

†Erma Webb—M.S., Associate Professor of Nursing

B.S., Union College; M.S., Loma Linda University. (1976)

Larry Williams—M.S.W., Associate Professor of Social Work and Family Studies

B.S., Southern Missionary College; M.S.W., University of Georgia. (1983)

Judy Winters—M.N., Associate Professor of Nursing

B.S., Southern Missionary College; M.N., Emory University. (1990)

William Wohlers—Ph.D., Professor of History/Vice President for Student Services

B.A., Walla Walla College; M.A., Andrews University; Ph.D., University of Nebraska. (1973)

† Orlando Faculty

1996-97 COLLEGE COMMITTEES

Administrative Committees

Administrative Council: Donald Sahly, Chair; Doris Burdick, Secretary; Jim Ashlock, Ron Barrow, Dale Bidwell, Helen Durichek, Jack Ferneyhough, Floyd Greenleaf, Elsworth Hetke, Jack McClarty, Ken Norton, William Wohlers, Joni Zier, †2 Teaching Faculty

Admissions/Recruitment Committee: Ron Barrow, Chair; Victor Czerkasij, Joanne Evans, Ken Norton, Bob Silver, Admissions Adviser

Budget and Finance Advisory Committee: Richard Center, Chair; Dale Bidwell, Secretary; Malcolm Gordon, Floyd Greenleaf, William Hulsey, Chris McKee, Donald Sahly, Ward Sumpter

Financial Aid/Academic Progress Committee: Ken Norton, Chair; Cheryl Ashmore, Ron Barrow, Floyd Greenleaf, Donna Myers, Joni Zier, (Dale Bidwell, ex-officio)

Financial Appeals Committee: Ken Norton, Chair; Ron Barrow, Dale Bidwell (or designee), Laetitia Swanson, Jayne Wyche

Fund Raising Committee: Jack McClarty, Chair; Paul Smith, Vice Chair; Evonne Crook, Secretary; Jim Ashlock, George Babcock, Helen Durichek, Diana Fish, Burt Pooley, Donald Sahly, Clifford Williams

Institutional Research and Effectiveness/Strategic Planning Committee: Vinita Sauder, Chair; Donna Myers, Secretary; Ron Barrow, Dale Bidwell, Helen Durichek, Floyd Greenleaf, Ben McArthur, Jack McClarty, Donald Sahly, William Wohlers, ‡One Student

Key/Access Committee: William Wohlers, Chair; Don Hart, Elsworth Hetke, Charles Lucas, Dale Tyrrell, †1 Teaching Faculty

Loans and Scholarship Committee: Ken Norton, Chair; Ron Barrow, Sharon Engel (or designee), Stan Hobbs (or designee), Donna Myers, William Wohlers, †2 Teaching Faculty, (Dale Bidwell, ex-officio)

Personnel Committee: Dale Bidwell, Chair; Elsworth Hetke, Vice Chair and Secretary; Bonnie Ashmore (1998), Stan Hobbs, (1997), Constance Hunt (1997), Ken Norton (1997), Judie Port (1998), Linda Wilhelm (1997), †1 Teaching Faculty

Plant Committee: Helen Durichek, Chair; Mark Antone, Charles Lucas, Ed Lucas, Skip McCandless, Dale Tyrrell

President's Cabinet: Donald Sahly, Chair; Ron Barrow, Dale Bidwell, Floyd Greenleaf, Jack McClarty, William Wohlers

Publications Committee: Ron Barrow, Chair; Susan Brown, Secretary; Jim Ashlock, Doris Burdick, Daryl Cole, Victor Czerkasij, Bob Silver, Ingrid Skantz, Admissions Adviser

Safety/Fire Prevention Committee: William Wohlers, Chair; Dale Tyrrell, Vice Chair/Secretary; Mark Antone, Barry Becker, Jim Burrus, Bev Ericson, Earl Evans, Phil Garver, Eleanor Hanson, Wayne Janzen, Charles Lucas, Ed Lucas, Skip McCandless, Dennis Negron, Allen Olsen, Dale Walters, Steven Warren

Trust Committee: Jack McClarty, Chair; Dale Bidwell, Vice Chair; Paul Smith, Secretary; Richard Erickson, Jack Ferneyhough, Burt Pooley

Faculty Senate

Donald Sahly, Chair; Floyd Greenleaf, Vice Chair; Lisa Gano, Secretary; George Babcock, Dale Bidwell, Jack Blanco, Ron Clouzet, Herbert Coolidge, Ron du Preez, Alberto dos Santos, Bob Egbert, Phil Garver, Jan Haluska, Pam Harris, Barbara James, John Keyes, Donn Leatherman, Ben McArthur, Wilma McClarty, Robert Moore, Derek Morris, Heather Neal, Terrie Ruff, Vinita Sauder, Jim Segar, Carl Swafford, Larry Williams, William Wohlers

Senate Executive Committee: Donald Sahly, Chair; Floyd Greenleaf, Vice Chair; Lisa Gano, Secretary; Dale Bidwell, Alberto dos Santos, Pam Harris, Donn Leatherman, William Wohlers

‡Appointed by Student Association

†Nominated by Faculty Senate

Senate Committees

Academic Affairs Committee: Floyd Greenleaf, Chair; Barbara Beckett, Secretary; George Babcock, Ron Barrow, Jack Blanco, Peggy Bennett, Robert Garren, Phil Garver, Larry Hanson, Pam Harris, Ray Hefferlin, Ed Lamb, Katie Lamb, Merritt MacLafferty, Ben McArthur, Sharon McGrady, Steve Nyirady, Helmut Ott, Marvin Robertson, Jim Segar, David Smith, Dale Walters, Steven Warren, Joni Zier, Consultant: Frank Di Memmo

Academic Review Committee: Floyd Greenleaf, Chair; Cherie Smith, Secretary; Ron Barrow, Sharon Engel (or designee), Stan Hobbs (or designee), Ken Norton (or designee), Sharon McGrady, William Wohlers, Jim Wampler, Joni Zier

Academic Research Fund Committee: Floyd Greenleaf, Chair; Pam Harris (95-97), Ray Hefferlin (at large), Dennis Pettibone (98-99), John Perumal (95-98)

Advisement Committee: Sharon McGrady, Chair; Joyce Azevedo (1997), Ron Barrow, Floyd Greenleaf, Carole Haynes (1998), John Keyes (1998), Jim Segar (1997), Jim Wampler, Larry Williams (1997)

Animal Care and Use Committee: Bob Egbert, Chair; Ron du Preez, David Ekkens, Linda Eldridge, Barry O'Neal, David Winters

Discipline Review Subcommittee: William Wohlers, Chair; Stan Hobbs, Sharon Engel, Glenda Davidson, Dennis Pettibone, one additional faculty member if needed

Employee Wellness Committee: Phil Garver, Chair; Helen Durichek, Laura Nyirady, Judie Port, Heather Neal, Merlin Wittenberg, †1 Teaching Faculty, (Dale Bidwell, ex-officio)

Faculty Affairs Committee: Katie Lamb, Chair; Joan dos Santos, Richard Erickson, Judith Glass, Derek Morris, Helmut Ott, William Wohlers, (Donald Sahly, ex-officio)

Film Subcommittee: Don Dick, Chair; Doris Burdick, Earl Evans, Jan Haluska, Loranne Grace, Ken Reynolds, Judy Winters, ‡2 Students, (William Wohlers, ex-officio)

General Education Subcommittee: Alberto dos Santos, Chair; Joyce Azevedo, Glenda Davidson, Jon Green, Wilma McClarty, Dennis Pettibone, Helen Pyke, Jim Segar, (Floyd Greenleaf, ex-officio)

Graduate Education Council: Floyd Greenleaf, Chair; George Babcock, Ron Barrow, Peg Bennett, Jack Blanco, Jim Segar, Joni Zier

Honors Subcommittee: Wilma McClarty, Chair; Bonnie Hunt, Donn Leatherman, Ben McArthur, Steve Nyirady, †1 Teaching Faculty, (Floyd Greenleaf, ex-officio)

Human Participants in Research Committee: Larry Williams, Chair; Wilma McClarty, Bob Moore, Bruce Norman, Vinita Sauder

Preprofessional Committee: Floyd Greenleaf, Chair; Cherie Smith, Secretary; all faculty from Biology/Chemistry/Physics, Sharon Engel (or designee), Stan Hobbs (or designee), William Wohlers

Promotions Committee: Floyd Greenleaf, Pam Harris (1999), Ed Lamb (1999), Wilma McClarty (1997), Robert Moore (1998), Steve Nyirady (1998), Art Richert (1997), (Donald Sahly, ex-officio)

Screening Subcommittee: Pat Silver, Chair; Pam Ahlfeld, David Ekkens, Beverly Ericson, Dwight Magers, Steven Warren, (William Wohlers, ex-officio)

Social/Recreation Committee: Glenda Davidson, Earl Evans, Larry Hanson, Cliff Olson, Dana Reed, ‡2 Teaching Faculty, (Donald Sahly, ex-officio)

Spiritual Life Subcommittee: Ken Rogers, Chair; Ron Clouzet, David Gerstle, Kassy Krause, Heather Neal, Dennis Negron, ‡2 Students

Student Activities Subcommittee: William Wohlers, Chair; Joyce Azevedo, Herbert Coolidge, Beverly Ericson, Rick Halterman, Steve Jaacks, Dwight Magers, Carl Swafford, ‡3 Students (including S.A. Social VP)

‡Appointed by Student Association

†Nominated by Faculty Senate

Student Personnel Subcommittee: William Wohlers, Chair; Midge Dunzweiler, Sharon Engel, Beverly Ericson, Earl Evans, Eleanor Hanson, Don Hart, Stan Hobbs, Kassy Krause, Dwight Magers, Dennis Negron, Ken Rogers, Dale Tyrrell, Jim Wampler

Student Services Committee: William Wohlers, Chair; Don Dick, Sharon Engel, Lisa Gano, Stan Hobbs, Ken Norton, Ken Rogers, Terrie Ruff, Pat Silver

Student Wellness Subcommittee: Eleanor Hanson, Chair; Beverly Ericson, Phil Garver, Dennis Negron, Laura Nyirady, CABLE Director, PAW Director, Student Wellness Director, Rich Wilkens, Bill Wohlers, ex-officio)

Writing Subcommittee: Helen Pyke, Chair; Jack Blanco, Alberto dos Santos, Ray Hefferlin, Volker Henning, Mark Peach, Dennis Pettibone, Larry Williams, (Floyd Greenleaf, ex-officio)

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| 41 Academic Probation | 41 Academic Probation |
| 42 Accounting | 42 Accounting |
| 43 Accounting Courses | 43 Accounting Courses |
| 44 Accreditation and Membership | 44 Accreditation and Membership |
| 45 Admittance | 45 Admittance |
| 46 ACT Scores | 46 ACT Scores |
| 47 Academic Probation | 47 Academic Probation |
| 48 Application Procedures | 48 Application Procedures |
| 49 General Requirements | 49 General Requirements |
| 50 Graduate Program and Requirements | 50 Graduate Program and Requirements |
| 51 International Students and Requirements | 51 International Students and Requirements |
| 52 Learning | 52 Learning |
| 53 Learning Goals/Standards/Outcomes | 53 Learning Goals/Standards/Outcomes |
| 54 SAT Scores and Requirements | 54 SAT Scores and Requirements |
| 55 Secondary Subjects/Requirements | 55 Secondary Subjects/Requirements |
| 56 Special Students | 56 Special Students |
| 57 Transfer Students | 57 Transfer Students |
| 58 Transfer Students (AGA) | 58 Transfer Students (AGA) |
| 59 Financial Policy | 59 Financial Policy |
| 60 Health Professions | 60 Health Professions |
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| 304 SAT Scores | 304 SAT Scores |
| 305 Secondary Subjects | 305 Secondary Subjects |
| 306 Special Students | 306 Special Students |
| 307 Transfer Students | 307 Transfer Students |
| 308 Transfer Students (AGA) | 308 Transfer Students (AGA) |
| 309 Financial Policy | 309 Financial Policy |
| 310 Health Professions | 310 Health Professions |
| 311 International | 311 International |
| 312 Learning | 312 Learning |
| 313 Learning Goals | 313 Learning Goals |
| 314 SAT Scores | 314 SAT Scores |
| 315 Secondary Subjects | 315 Secondary Subjects |
| 316 Special Students | 316 Special Students |
| 317 Transfer Students | 317 Transfer Students |
| 318 Transfer Students (AGA) | 318 Transfer Students (AGA) |
| 319 Financial Policy | 319 Financial Policy |
| 320 Health Professions | 320 Health Professions |
| 321 International | 321 International |
| 322 Learning | 322 Learning |
| 323 Learning Goals | 323 Learning Goals |
| 324 SAT Scores | 324 SAT Scores |
| 325 Secondary Subjects | 325 Secondary Subjects |
| 326 Special Students | 326 Special Students |
| 327 Transfer Students | 327 Transfer Students |
| 328 Transfer Students (AGA) | 328 Transfer Students (AGA) |
| 329 Financial Policy | 329 Financial Policy |
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| 332 Learning | 332 Learning |
| 333 Learning Goals | 333 Learning Goals |
| 334 SAT Scores | 334 SAT Scores |
| 335 Secondary Subjects | 335 Secondary Subjects |
| 336 Special Students | 336 Special Students |
| 337 Transfer Students | 337 Transfer Students |
| 338 Transfer Students (AGA) | 338 Transfer Students (AGA) |
| 339 Financial Policy | 339 Financial Policy |
| 340 Health Professions | 340 Health Professions |
| 341 International | 341 International |
| 342 Learning | 342 Learning |
| 343 Learning Goals | 343 Learning Goals |
| 344 SAT Scores | 344 SAT Scores |
| 345 Secondary Subjects | 345 Secondary Subjects |
| 346 Special Students | 346 Special Students |
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| 348 Transfer Students (AGA) | 348 Transfer Students (AGA) |
| 349 Financial Policy | 349 Financial Policy |
| 350 Health Professions | 350 Health Professions |
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| 353 Learning Goals | 353 Learning Goals |
| 354 SAT Scores | 354 SAT Scores |
| 355 Secondary Subjects | 355 Secondary Subjects |
| 356 Special Students | 356 Special Students |
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| 361 International | 361 International |
| 362 Learning | 362 Learning |
| 363 Learning Goals | 363 Learning Goals |
| 364 SAT Scores | 364 SAT Scores |
| 365 Secondary Subjects | 365 Secondary Subjects |
| 366 Special Students | 366 Special Students |
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| 368 Transfer Students (AGA) | 368 Transfer Students (AGA) |
| 369 Financial Policy | 369 Financial Policy |
| 370 Health Professions | 370 Health Professions |
| 371 International | 371 International |
| 372 Learning | 372 Learning |
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| 374 SAT Scores | 374 SAT Scores |
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| 384 SAT Scores | 384 SAT Scores |
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| 395 Secondary Subjects | 395 Secondary Subjects |
| 396 Special Students | 396 Special Students |
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| 398 Transfer Students (AGA) | 398 Transfer Students (AGA) |
| 399 Financial Policy | 399 Financial Policy |
| | |

INDEX

| | |
|-------------------------------------|----------|
| Absences | 40, 228 |
| Academic Advisement | 36 |
| Academic Calendar | 4, 5 |
| Academic Enrichment Services | 19 |
| Academic Honesty | 38 |
| Academic Policies | 22 |
| Academic Probation and Dismissal .. | 39 |
| Acceptance | 10 |
| Academic Probation | 10, 39 |
| Regular | 10 |
| Accounting Courses | 87 |
| Accreditation and Memberships | 8 |
| Actuarial Studies | 169 |
| Admission | |
| ACT Scores | 11 |
| Academic Probation Acceptance .. | 10 |
| Application Fee | 13 |
| General Requirements | 11 |
| Graduate Program | 13 |
| International Students | 12 |
| Nursing | 191 |
| Regular/Good Standing Acceptance | 10 |
| SAT Scores | 11 |
| Secondary Subjects Required | 11 |
| Special Students | 12 |
| Teacher Education | 115, 116 |
| Transfer Students | 11 |
| Adventist Colleges Abroad (ACA) | |
| Financial Policy | 231 |
| Allied Health Professions | 47 |
| Anderson Lecture Series | 19, 91 |
| Anesthesia | 220 |
| Apartments | 230 |
| Application Procedure | 13 |
| Art Courses | 61 |
| Assembly Attendance | 18, 41 |
| Associate Degree Programs | |
| Accounting | 85 |
| Allied Health | 47 |
| CADD Applications | 102 |
| Computer Science | 101 |
| Engineering Studies | 129 |
| General Studies | 218, 219 |

Associate Degree Programs, cont.

| | |
|--|-----|
| Media Technology | 162 |
| Nursing | 191 |
| Office Administration | 86 |
| Pre-Cytotechnology | 50 |
| Pre-Dental Hygiene | 51 |
| Pre-Nutrition and Dietetics | 52 |
| Pre-Occupational Therapy | 53 |
| Pre-Physical Therapy | 54 |
| Pre-Physician Assistant | 56 |
| Pre-Speech Language Pathology & Audiology | 58 |
| Pre-Surgeon's Assistant | 59 |
| Auditing Courses | 35 |

Bachelor of Arts Degrees

| | |
|--|-----|
| Art | 60 |
| Biology | 73 |
| Broadcast Journalism | 161 |
| Chemistry | 94 |
| Computer Science | 100 |
| Education | 109 |
| English | 131 |
| History | 146 |
| International Studies | 174 |
| French Emphasis | 174 |
| German Emphasis | 174 |
| Spanish Emphasis | 175 |
| Journalism (News Editorial) | 160 |
| Mathematics | 168 |
| Music | 181 |
| Physics | 199 |
| Psychology | 108 |
| Psychology (Leading to Licensure, K-8) | 109 |
| Public Relations | 161 |
| Religious Education | 210 |
| Religious Studies | 211 |
| Social Science (Leading to Licensure 1-8) | 110 |
| Theology | 210 |

| | |
|-------------------------------------|---------|
| Bachelor of Business Administration | |
| Accounting | 82 |
| Computer Information Systems | 83, 101 |
| Core Requirements | 82 |
| Management | 82 |
| Marketing | 83 |
| Bachelor of Music | 179 |
| Bachelor of Science Degrees | |
| Actuarial Studies | 169 |
| Art—Computer Graphic Design | 60 |
| Behavioral Science | 66 |
| Biology | 73 |
| Business Administration | 83 |
| Chemistry | 95 |
| Computer Science | 100 |
| Family Studies | 66 |
| Health Science | 140 |
| Long-Term Care Administration | 84 |
| Mathematics | 169 |
| Medical Science | 218 |
| Medical Technology | 47 |
| Nursing | 190 |
| Office Administration | 85 |
| Physical Education | 138 |
| Physics | 200 |
| Science & Math Studies | |
| (Leading to Licensure 1-8) | 111 |
| Social Work | 66 |
| Wellness Management | 139 |
| Bachelor of Social Work | 66 |
| Bachelor of Technology Degrees | 154 |
| Graphic Arts | 154 |
| Technical Plant Services | 154 |
| Bankruptcy | 234 |
| Biology Courses | 75 |
| Board of Trustees | 250 |
| Executive Board | 250 |
| Bogenhofen | 173 |
| Botany Courses | 76 |
| Brock Hall | 9 |
| Business Administration Courses | 89 |
| CADD Applications | 102 |
| Cafeteria Charges | 230 |
| Campus Organizations | 17 |
| Canceled Classes | 35 |

| | |
|---------------------------------|--------|
| Career Services | 15 |
| Catalog, Importance of | 2 |
| Certificate Programs | 152 |
| Auto Body Technician | 153 |
| Auto Mechanics Technician | 153 |
| Graphic Arts | 154 |
| Technical Plant Services | 154 |
| Chamber Music Series | 19 |
| Changes in Registration | 34 |
| Chaplain's Office | 14 |
| Chemistry Courses | 96 |
| Class Attendance | 40 |
| Class Standing | 23 |
| Classic Film Series | 20 |
| CLEP Exams | 42 |
| Cognate Courses | 45 |
| Collection Policy | 234 |
| College Administration | 250 |
| Collonges | 173 |
| Community Service | 25 |
| Computer Center | 9 |
| Computer Graphic Design | 60, 61 |
| Computer Science and Technology | 99 |
| Computer Science Courses | 103 |
| Concert-Lecture Series | 17 |
| Conduct Standards | 17 |
| Continuing Education | 19, 44 |
| Correspondence Work | 42 |
| Counseling and Testing Service | 15 |
| Course Load | 35 |
| Course Numbers | 45 |
| Course Sequence | 45 |
| Credit Cards | 237 |
| Curriculum Chart | 32 |
| Cytotechnology | 50 |
| Daniells Hall | 9 |
| Dean's List | 31 |
| Degrees Offered | |
| Associate Degrees | 32 |
| Listing of | 32-34 |
| Bachelor of Arts | 31 |
| Listing of | 32-34 |

264 INDEX

| | |
|-------------------------------------|----------|
| Bachelor of Business Admin . . . | 32, 82 |
| Bachelor of Music | 179 |
| Bachelor of Science | 31 |
| Listing of | 32-34 |
| Bachelor of Social Work | 32, 66 |
| General Education Requirements | 25-29 |
| Major Requirements | 31 |
| Minor Requirements | 31 |
| Dental Hygiene | 51 |
| Dentistry | 220 |
| Dietetics | 52 |
| Dining, Campus Options | 14 |
| Dismissal | 39 |
| Distinguished Dean's List | 31 |
| Dorm, See Residence Halls | |
| E. A. Anderson Lecture Series . . . | 19 |
| E. O. Grundset Lecture Series . . . | 20 |
| Ecology Courses | 76 |
| Economics Courses | 91 |
| Education | 107 |
| Certification | 117, 118 |
| Courses | 120 |
| Secondary | 118-120 |
| Elementary Education | 109-111 |
| Employment Service | 16 |
| Engineering | 129 |
| English | |
| Language Study | 41 |
| Proficiency in | 12, 132 |
| Examinations | 40 |
| Attendance | 40 |
| CLEP | 42 |
| Credit by | 42 |
| Rescheduling | 40 |
| Special Fees | 228 |
| Waiver | 41 |
| Expenses | 227 |
| Application Fee | 13 |
| Estimated Student Budget | 227 |
| Food Service | 230 |
| Housing | 14, 229 |
| Late Registration | 34, 229 |
| Music Lessons | 228 |
| Special Fees and Charges | 228 |
| Student Costs | 227 |

| | |
|------------------------------------|----------|
| Student Tithing | 239 |
| Tuition | 227 |
| Tuition Refunds | 235 |
| Extension Classes | 12, 43 |
| Facilities | 9 |
| Faculty | 253 |
| Committees | 259 |
| Directory | 253 |
| Emeriti | 252 |
| Family Rebate | 227 |
| Financial Information | 227 |
| Aid | 241 |
| Family Rebate | 227 |
| Grants | 247 |
| Loans | 247 |
| Methods of Payment | 231 |
| Refund Policy | 235 |
| Repayment Policy | 244 |
| Satisfactory Academic Progress . | 241 |
| Scholarships | 245 |
| Veterans | 245 |
| Florence Oliver Anderson Lecture | |
| Series | 19 |
| Food Service | 230 |
| Foreign Study | 173 |
| Freshman Standing | 10 |
| GED | 10 |
| General Education Requirements . | 25-29 |
| General Studies | 218, 219 |
| Grading System | 36 |
| Graduate Degrees | |
| Education | 107 |
| Religion | 209 |
| Graduation Requirements | 24 |
| Graphic Art Design | 60 |
| Grievance Procedure | 40 |
| Grundset Lecture Series | 20 |
| Hackman Hall | 9 |
| Health Education Courses | 140 |
| Health Insurance | 229 |
| Health Service | 9, 15 |
| History Courses | 149 |
| History of College | 7 |

| | |
|---------------------------------------|--------------|
| Honor Roll | 31 |
| Honors Program | 29, 246 |
| Honors Studies Sequence | 30 |
| Housing Deposit | 230 |
| Incompletes | 37 |
| Industrial Technology | 152 |
| Instructional Media | 20 |
| Insurance | 16, 229, 236 |
| Interdepartmental Programs | 218 |
| Interest on Past-Due Balance | 234 |
| International Students | 12, 230 |
| J. Mabel Wood Hall | 9 |
| Journalism Courses | 163 |
| Labor Regulations | 238 |
| Foreign Students | 239 |
| Late Registration | 34, 229 |
| Law | 221 |
| Ledford Hall | 9 |
| Libraries | 20 |
| Literature Courses | 135 |
| Long-Term Care Admin Courses | 91 |
| Lynn Wood Hall | 9 |
| Major and Minor Requirements | 31 |
| Marine Biological Field Station | 21 |
| Marketing Courses | 88 |
| Master's Degree | 22 |
| Admission Requirements | 13, 22 |
| Mathematics Courses | 170 |
| Mazie Herin Hall | 9 |
| McKee Library | 9, 20 |
| Medical Science | 218 |
| Medical Technology | 47 |
| Medicine | 221 |
| Miller Hall | 9 |
| Minors | |
| Advertising | 162 |
| Art | 61 |
| Art—Computer Graphic Design | 61 |
| Behavioral Science | 67 |
| Biblical Languages | 212 |
| Biology | 74 |
| Broadcast Journalism | 162 |

| | |
|-----------------------------------|----------|
| Minors, cont. | |
| Business Administration | 86 |
| Chemistry | 95 |
| Computer Science | 102 |
| Education | 112 |
| English | 132 |
| Family Studies | 67 |
| French | 175 |
| German | 175 |
| History | 147 |
| Journalism (News Editorial) | 162 |
| Marketing | 86 |
| Mathematics | 169 |
| Music | 181 |
| Office Administration | 86 |
| Physical Education | 140 |
| Physics | 200 |
| Political Economy | 148, 221 |
| Political Science | 148 |
| Practical Theology | 212 |
| Psychology | 108 |
| Public Relations | 162 |
| Religion | 212 |
| Sales | 163 |
| Sociology | 67 |
| Spanish | 175 |
| Technology | 152 |
| Mission Statement | 6 |
| Music | |
| Courses | 182 |
| Curriculum | 179 |
| Ensembles | 186 |
| Fees | 228 |
| Nondepartmental Courses | 187 |
| Nursing | |
| Accreditation | 190 |
| Admission Requirements | 191 |
| Courses | 195 |
| Policies | 189 |
| Progression Requirements | 194 |
| Readmission | 194 |
| Nutrition Course | 187 |
| Nutrition/Dietetics Program | 52 |

- Objectives of the College 6
- Occupational Therapy 53
- Occupational Therapy Assistant 50
- Office Administration Courses 92
- One-Year Certificates
- Auto Body Technician 152
 - Auto Mechanics Technician 153
 - Graphic Arts 154
 - Requirements 23
 - Technical Plant Services 154
- Optometry 223
- Organizations 17
- Orientation Program 16
- Orlando Campus 198
- Osteopathic Medicine 223
- Pass/Fail 37, 141
- Petition 40
- Pharmacy 224
- Photo Release Policy 18
- Physical Education Activity Courses 141
- Physical Therapy 54
- Physical Therapy Assistant 50
- Physics Courses 201
- Pierson Lecture Series 20
- Podiatric Medicine 224
- Post Graduate Tuition Plan 239
- Prefix Glossary 46
- Preprofessional Curricula 34
- Anesthesia 220
 - Cytotechnology 50
 - Dental Hygiene 51
 - Dentistry 220
 - Engineering Studies 129
 - Graphic Arts 154
 - Law 221
 - Medical Technology 47
 - Medicine 221
 - Nutrition and Dietetics 52
 - Occupational Therapy 53
 - Optometry 223
 - Osteopathic Medicine 223
 - Pharmacy 224
 - Physical Therapy 54
 - Physician Assistant 56
 - Podiatric Medicine 224
- Preprofessional Curricula, cont.
- Respiratory Therapy 50
 - Speech Lang Pathology/Audiology 58
 - Surgeon's Assistant 59
 - Technical Plant Services 154
 - Veterinary Medicine 225
- Probation 10, 39
- Prospective Graduate 24
- Psychology Courses 125
- Public Relations
- Courses 166
 - Major 161
 - Minor 162
- Radiation Technology 50
- Radio Station, WSMC FM90.5 21
- Refund Policy 235, 236, 244
- Credit Refund 236
 - Financial Aid Refund Policy 246
- Registration 34
- Dates 4, 5
- Rehabilitation Act 14
- Religion Center 9
- Religion Courses 212
- Repeated Courses 37
- Residence Halls 14
- Residence Requirements 24
- Respiratory Therapy 50
- Right of Petition 40
- Sagunto 173
- Satisfactory Academic Progress 39, 241
- Scholarships 245
- Secondary Education 118
- Senior Citizen Tuition 240
- Senior Placement Service 16
- Sequence of Courses 45
- Sociology Courses 67
- Social Work Courses 69
- Software Technology 226
- Southern Scholars 29
- Spalding Elementary School 9
- Special Fees and Charges 228
- Special Student 12
- Speech Courses 137
- Staley Lecture Series 20

Standards of Conduct 17
 Statement Charges 229
 Student Association 17
 Student Center 9
 Student Employment Service 16
 Student Life and Services 14
 Student Mission Credit 31
 Student Records 37
 Study-Work Program 36
 Summer Graduate 24
 Summer Tuition 227
 Summer Work Incentive Program . 235
 Summerour Hall 9
 Surgical Technology 50

Talge Hall 9, 14
 Task Force Credit 31
 Technology Courses 154
 Testing Service 15
 Thatcher Hall 9, 14
 Tithing 239
 Transcripts 13, 24, 44
 Transfer Credit 25
 Transfer Students 11
 Tuition Refunds 235, 244
 Tuition Waivers 235
 Tuition, Post Graduate 239

Upper Division Credit 22, 45

Veterinary Medicine 225

Waiver Examinations 40

Wellness Management 139

Withdrawals, Class 35, 235

Withdrawals, Cash 327

Worker's Compensation 236

Worship Services 18

Wright Hall 9

Writing (W) Courses 25

WSMC FM90.5 8, 21

Zoology Courses 77, 78

| JULY | | AUGUST | | SEPTEMBER | | OCTOBER | | NOVEMBER | | DECEMBER | |
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